CONTENTS OF SUPPLEMENT.

PERSONAL 29
Obituary 29
ENGINEERING SOCIETIES 29
Coming Meetings 29
NEW PUBLICATIONS 29
Trade Publications 29
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 30
Railways 30
Street and Electric Railways 30
Electric Light and Power 31
Bridges 32
Buildings 32
Water-Works 33
Sewerage 34
Garbage Disposal and Street Cleaning 35
Streets and Roads 35
Manufacturing Plants 35
Miscellaneous Contracts 35
Contracts Prices 36
U. S. Possessions and Cuba 36
Foreign Contracts and Export News 36
INDUSTRIAL NOTES 36

PERSONAL.

Mr. Seth Chandler has been appointed City Engineer of Ballard, Wash.

Mr. H. G. Clark, Civil Engineer and Surveyor, of Champlain, has opened an office in the Marion Block, Plattburg, N. Y.

Mr. O. J. Lloyd has been appointed to succeed Mr. A. Kirkland as General Manager of the Ocilla, Pinebloom & Valdosta R. R.

Mr. T. E. Pearse has been appointed to fill the vacancy caused by the death of Mr. E. A. Mayre, City Engineer of Newport News, Va.

Mr. E. M. Royall, of the U. S. Engineer Office at Charleston, S. C., was recently married to Miss Katherine Maybank of that city

Mr. C. T. Church, for the past two years City Engineer of Geneva, N. Y., has been appointed Superintendent of the Board of Public Works of that city.

Mr. W. Henry has been appointed Master Mechanic of the Texas Southern Ry., with headquarters at Terrell, Tex., succeeding Mr. N. L. Smitham, resigned.

Mr. John R. Slack, Assistant Superintendent of Motive Power of the Delaware & Hudson R. R., has been appointed Superintendent of Motive Power of that road.

Mr. J. H. Dingle has been appointed City Engineer of Charleston, S. C., Mr. D. C. Barbot, Assistant City Engineer, and Mr. J. B. Keckely, Superintendent of Streets.

Mr. William M. Morkill has been appointed General Manager of the Interoceanic Ry. of Mexico, with headquarters at Mexico City, Mex., succeeding Mr. G. M. Stewart.

Mr. W. L. Simonton, General Manager of the Emlyn Iron Works, East Chicago, Ill., has been appointed General Manager of the Republic Iron & Steel Co., to succeed Mr. W. E. Taylor, resigned.

Mr. W. North Robins has resigned his position as Chief Draftsman with the Choctaw, Oklahoma & Gulf R. R. at Little Rock, Ark., to accept a position with the H. C. Frick & Co., at Scottdale, Pa.

Mr. B. F. Thomas, U. S. Civil Engineer, heretofore in charge of the Kanawha River, with headquarters at Charlestown, W. Va., has been appointed Chief Assistant to Major E. H. Ruffner, Corps of Engineers.

Mr. Lewis J. H. Grossart, formerly City Engineer of Allentown, Pa., and later connected with the Atlas Portland Cement Co., at Northampton, as Constructing Engineer, is now with Milliken Bros., Civil Engineers and Contractors, New York city.

Mr. William G. Wilkins, Mining Engineer, of Pittsburg, Pa., has been selected to take active charge of the operations for the development of some 20,000 acres of coal lands in the Elkhorn and Tug River Valleys, West Virginia, for the United States Coal & Coke Co.

Mr. Donald L. Sommerville has been appointed Division Engineer of the Rome, Watertown & Ogdensburg Division of the New York Central & Hudson River R. R., succeeding Mr. Charles J. Parker, resigned to accept the position of Chief Engineer of the Rutland R. R.

Mr. A. L. Humphrey, Superintendent of Motive Power of the Colorado & Southern R. R., has been appointed to succeed Mr. C. M. Mendenhall, who recently resigned as Superintendent of Motive Power of the Chicago & Alton Ry., and will have his headquarters at Bloomington, Ill.

Mr. Samuel Millican has been appointed Master Mechanic of the Houston East & West Texas Ry., with headquarters at Houston, Tex., succeeding Mr. A. S. Grant, resigned, who takes a similar position on the St. Louis, Iron Mountain & Southern R. R. at Little Rock, Arkansas.

Mr. P. P. Evans, Assoc. M. Am. Soc. C. E., formerly with the King Bridge Co., in charge of the Contracting Department of their Boston office, has accepted the position of Contracting Engineer with the Osborn Engineering Co., and will have his headquarters at their main office in the Osborn Building, Cleveland, Ohio.

Mr. Frank E. Merrill has been elected President of the New England Water-Works Association. Mr. Merrill has been Vice-President of the Association for the past two years, and has been connected with the Water Department of Somerville, Mass., for 11 years, including three years as Superintendent and the last two years as Commissioner.

Mr. W. S. Palmer has been appointed Superintendent of the Western Division of the Southern Pacific R. R., succeeding Mr. James L. Frazier, resigned. Mr. F. E. Prior, Assistant Superintendent of the Los Angeles Division, succeeds Mr. Palmer as Superintendent of the Sacramento Division and is himself succeeded by Mr. E. L. Swaine.

Mr. Alfred F. Theard has been elected President of the Louisiana Engineering Society. The other officers elected are Mr. W. B. Wright, Vice-President; Mr. R. E. Du Buys, Treasurer; Mr. John M. Ordway, Member of the Board of Directors, and Mr. F. M. Kerr, Representative of the Managers of Association of Engineering Societies.

Mr. Ritsuzo Tsumaki, Civil Engineer and Superintendent of extensive coal mines at Nagasaki, Japan, was in Milwaukee, Wis., last week Mr. Tsumaki is making a study of the methods of coal mining and the machinery used in that work. He has visited the coal districts of England and Wales, and also the mines at Scranton and Pittsburg, Pa., and will inspect the mines at Seattle, Wash., before sailing for home.

Mr. C. C. Martin, M. Am. Soc. C. E., Chief Engineer and Superintendent of the New York and Brooklyn Bridge since its erection, has been designated by Bridge Commissioner Lindenthal as Consulting Engineer of the Bridge Department of New York city, his former position being abolished. Mr. Samuel R. Probasco, M. Am. Soc. C. E., formerly Chief Engineer of the Department of Bridges, is assigned as Engineer in charge of the work shops, machinery and repairs connected with the department's work. Mr. O. F. Nichols, M. Am. Soc. C. E., Principal Assistant Engineer of the New East River Bridge, has been placed in charge of the Brooklyn Bridge.

OBITUARY.

Mr. William M. Seyfert, President of the Reading Iron Works, died at his home in Philadelphia, Pa., on Jan. 18, aged 81 years.

Mr. Maurice Lynch, Water Commissioner, and a prominent brick manufacturer and builder of Holyoke, Mass., died suddenly on Jan. 17 at South Hadley.

Mr. H. J. Cushman, Civil Engineer and Millwright, died in Plainwell, Mich., on Jan. 15. He was born in Homer, N. Y., in 1815, and moved to that village in 1859. He built the first mills in Allegan and Plainwell.

Mr. Ernest Victor Clergue, of Sault Ste. Marie, Ont., Mines Manager for the Consolidated Lake Superior Power Co., whose works were described in our issue of Jan. 9, died at Chicago, Ill., on Jan. 14, aged 42 years.

Mr. Nathaniel E. Russell, M. Am. Soc. C. E., died at his home in Upper Troy, N. Y., on Jan. 15. Mr. Russell was 53 years of age and was born in Washington, D. C. He graduated from the Rensselaer Polytechnic Institute of Troy and soon after became a member of a government engineering expedition in the West. During the last year of his life he practiced as a Consulting Engineer.

Mr. John Park Illsley, for many years prominent in railway operations in the West, died Jan. 14 at New Brighton, S. I., at the age of 77 years. He was elected President of the St. Paul & Duluth R. R. in 1877. For 30 years he was connected with the firm of E. W. Clarke & Co. as Consulting Engineer. He was President of the construction company that built the Ohio River R. R., and afterwards became President of the Scranton Traction Co. and the Brooklyn Traction Co.

John Frothingham Ward, prominent as a Hydraulic Engineer, died on Jan. 16, at his home in New York, of septic pneumonia. Mr. Ward was born 72 years ago and began his engineering work on the old Morris Canal. He was an engineer on the Croton Aqueduct for some years; for five years engineer and superintendent of the Jersey City Water-Works; was constructing engineer of the Hoboken Water-Works; chief engineer of the Hackensack Water-Works and constructing engineer for an extension of the Providence, R. I., Water-Works. Mr. Ward was also for some years engaged in the manufacture of iron water pipe, and he was the inventor of the Ward flexible joint, still extensively used for submarine pipe laying. He was the builder of various water-works in the West, and his last large work was in connection with the South Gila Canal, in Arizona. For some years past he had practically retired from active business. He was a brother of the late Lebbens B. Ward, also a hydraulic engineer.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.
Jan. 22, 23, 24. Annual meeting at Joliet, Ill. Secy., A. L. Kuehn, Urbana, Ill.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Jan. 27, 28, 29. Annual convention at Montreal, Que.

INDIANA ENGINEERING SOCIETY.
Jan. 29, 30, 31. Annual meeting at Indianapolis, Ind. Secy., G. C. Brown, Indianapolis.

THE CIVIL ENGINEERS' SOCIETY OF ST. PAUL.—On Monday, Jan. 13, this society held its annual meeting. The most important business of the evening was the election of officers, which resulted as follows: President, Mr. A. W. Münster; Vice-President, Mr. A. R. Starkey; Secretary, Mr. G. S. Edmondstone; Treasurer, Mr. A. H. Hogeland; Librarian, Mr. C. A. Winslow. The meeting then "adjourned to the cafe of the Windsor Hotel, where a love feast was held, the dainties enjoyed, and the hours passed in most pleasant manner."

AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.—The eighth annual meeting was held at 12 West 31st St., New York city, on Jan. 21, 1902. Officers for the coming year were elected as follows: President, A. E. Kenrick, Brookline, Mass.; Vice-Presidents, A. Harvey, Detroit, Mich.; R. C. Clarkson, Philadelphia, Pa.; Secretary, W. M. Mackay, New York; Treasurer, J. A. Goodrich, New York.

BROTHERHOOD OF STEAM SHOVEL AND DREDGE ENGINEERS AND CRANEMEN OF AMERICA.—At the seventh annual convention, held in Chicago, Ill., on Jan. 9, 10 and 11, a resolution was adopted fixing wages for the shovel and dredge men employed on the Nicaragua or the Panama Canal work at $250 per month and board for engineers (engine runners), $200 per month and board for cranemen. The convention further adopted a resolution urging Congress to pass the river and harbor bill. Officers were elected for the coming year and other business transacted.

T. J. Dolan, Jr., Secy. and Treas., Chicago.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on Jan. 15 Mr. P. A. Maignen, Assoc. Am. Soc. C. E., of Philadelphia, Pa., gave an interesting address on "Water Filtration," illustrated by a few experiments and a number of stereopticon views showing the Maignen system of filtration and plants built on this system in Europe and the United States. Among these were public fountain filters used in Philadelphia. In this system charcoal and asbestos cloth are used, the water passing from the outside of cloth bags filled with charcoal and having tubes inserted to carry off the filtered water from the interior. These bags may be used singly for domestic filters or in large numbers packed in shallow trays for public water supply systems. The asbestos may be used in connection with sand filtration by adding an emulsion of asbestos to the water; this forms a fine coating over the sand, which arrests mud and foreign matter, and when the filter bed requires to be cleaned the film of mud and asbestos can be peeled off the surface of the sand in sheets. Mr. Maignen laid particular stress upon the fact that in many cases where a new source of supply is contemplated at great expense, on account of the unhealthy condition of the existing supply, the adoption of a filter system for the latter will give a supply of a better quality than that from the proposed new source, and at very much less cost. In exceptional cases, double filtration may be required, but the expense will still be very small as compared with that involved in procuring an entirely new supply, which itself may eventually have to be filtered.

NEW PUBLICATIONS.

REPORT OF THE CHIEF OF THE WEATHER BUREAU. 1900-1901. U. S. Department of Agriculture (In two volumes.) Vol I. Washington, D. C. Cloth; 9 × 11½ ins.; pp. 318.

Contents: Administrative report; climatology, or hourly averages of atmospheric pressure, temperature, and wind at 28 stations; monthly and annual meteorological summaries; monthly and annual means and extremes of temperature and dates of first and last killing frosts; monthly and annual precipitation and snowfall; miscellaneous tables, etc., of sunshine, excessive precipitation, highest and lowest temperature ever recorded at stations, pressure and temperature West India stations.

TRANS-MISSISSIPPI COMMERCIAL CONGRESS.—Official Proceedings of 12th Convention, held at Cripple Creek, Colo., July 17-20, 1901. Arthur F. Francis, Secretary, Cripple Creek, Colo. Cloth; 6 × 9 ins.; pp. 357.

This report covers the rules governing the Congress, list of officers, and permanent members, and all speeches, discussions, resolutions, etc. St. Paul, Minn., was chosen as the next place of meeting. The following addresses, among a number delivered, will indicate the character of the subjects discussed: A Department of Commerce and Industry, Hon. John W. Noble; The Relations of the Government to the Mining Industry, Hon. Robert Graham; The Nicaragua Canal, Hon. S. Storey; Louisiana Waterways, Hon. S. F. Lewis; Trade with the Pacific States of South America, Hon. Leon Jastrenski; Commercial Utility of a Navigable Depth of not less than 14 ft. between Chicago and St. Louis, Lyman E. Cooley; Our Trade Should Go Under Our Flag, Hon. Chester I. Long; What Shall We Do With Our Surplus Products, Francis A. Thurber; The Beet Root Industry, Mr. Cutler; A Greater West, E. J. Burkett; What Water Will Do for the West, Hon. W. A. Stuart; Irrigation in the West, C. S. Johnson; Forrestry, Hon. F. N. Newell; Trade With the Orient, B. C. Wright; Fuel Oil in the Industrial and Commercial Development of the Southwest, D. R. Beatty.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

STEAM SPECIALTIES.—B. F. Sturtevant Co., Boston, Mass. Paper; 6½ × 8¾ ins.; pp. 8; illustrated.

The pamphlet is devoted to the Sturtevant exhaust heads and the Sturtevant steam trap.

PIPE COVERINGS.—F. J. Gast, 26 Cortlandt St., New York, N. Y. Paper; 3½ × 6 ins.; pp. 24; illustrated.

Asbestos air-cell and some other forms of heat-insulating covering for pipes, boilers, etc., are described and priced. Some testimonials are given.

ELECTRICAL SUPPLIES.—Central Electric Co., 264 Fifth Ave., Chicago, Ill. Paper; 6¾ × 8¾ ins.; pp. 174; illustrated.

This is a price-list of a very large line of fittings and other supplies, of various manufacture. It is fully indexed.

HOISTING ENGINES.—Allis-Chalmers Co., Fraser & Chalmers Works, Chicago, Ill. Paper; 6 × 9 ins.; pp. 127; illustrated.

Mine hoists and hoisting engines of different types are fully described in this catalogue; cages, skips, ore buckets, ropes, sheaves, etc., are also brought out.

ELECTRICAL SUPPLIES.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ and 4⅜ × 6⅝ ins.; illustrated.

The larger pamphlets are, bulletins 4274, describing magnetic separators, 4271 discussing and showing isolated plant switchboards for two-wire continuous-current systems, and 4272 showing small, direct-coupled generating sets. The smaller sheets are flyer 2090, showing pendant push-button switches and price-list 7552, listing parts of union standard trolleys. A large size handsome booklet accompanying these publications describes certain portions of the Buffalo street railway power installation, converting electricity generated at Niagara for the use of the street railway.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Jan. 23.	Sewer,	St. Paul, Minn.	Jan. 16
Jan. 23.	Cement sidewalks,	Terre Haute, Ind.	Jan. 16
Jan. 23.	Paving,	Bloomington, Ill.	Jan. 16
Jan. 23.	Water-works,	Leavenworth, Kan.	Jan. 9
Jan. 24.	Passageway,	Tompkinsville, N. Y.	Jan. 9
	Advertised, Eng. News, Jan. 9 and 16.		
Jan. 24.	Steam heating plant,	Fort Totten, N. Dak.	Dec. 26
Jan. 24.	Wharf,	Ward's Island, N. Y.	Jan. 16
Jan. 24.	Hoisting engine,	Chicago, Ill.	Jan. 16
Jan. 25.	Breakwater,	Richibucto, N. B.	Jan. 16
Jan. 25.	Dredging (40,000 cu. yds),	New York, N. Y.	Jan. 16
Jan. 25.	Bridge,	New Westminster, B. C.	Dec. 26
	Advertised, Eng. News, Dec. 26 and Jan. 2.		
Jan. 25.	Syphon culvert,	Montreal, Que.	Jan. 23
Jan. 25.	Sewer,	Findlay, O.	Jan. 23
Jan. 26.	Electric tramway,	Spain,	Dec. 19
Jan. 27.	Paving, (22,000 yds.),	Wabash, Ind.	Dec. 19
Jan. 27.	Bridge,	Lansing, Mich.	Jan. 2
Jan. 27.	Paving,	Wellsville, O.	Jan. 9
Jan. 27.	Bridges (10),	Evansville, Ind.	Jan. 16
Jan. 27.	Wharf repairs,	Augusta, Ga.	Jan. 23
Jan. 27.	Library,	West Chester, Pa.	Jan. 23
Jan. 28.	Ditch,	Monticello, Ind.	Jan. 23
Jan. 28.	Sewers,	Wakefield, Mass.	Jan. 23
Jan. 28.	Sewer,	Columbus, O.	Jan. 23
Jan. 28.	Paving,	Huntington, Ind.	Jan. 16
Jan. 28.	Bridges,	Anadarko, Okla. Ter.	Jan. 16
Jan. 28.	Bridge,	Walkerton, Ont.	Jan. 9
Jan. 28.	Lightship,	Washington, D. C.	Jan. 9
Jan. 28.	Canal work,	Belgium.	Dec. 26
Jan. 28.	Court house,	Williamson, W. Va.	Dec. 26
Jan. 29.	Sewers,	Williamsport, Pa.	Dec. 26
	Advertised, Eng. News, Dec. 26 and Jan. 2.		
Jan. 29.	Rock, etc.,	Mobile, Ala.	Dec. 26
Jan. 29.	Sewerage system,	Charlotte, Mich.	Dec. 19
	Advertised, Engineering News, Dec. 19.		
Jan. 29.	Water bonds,	Lewiston, Idaho	Jan. 9
Jan. 29.	Building bonds,	Poughkeepsie, N. Y.	Jan. 16
Jan. 29.	Paving, etc.,	Cleveland, O.	Jan. 23
Jan. 30.	Removing offal, waste, etc.,	New York	Jan. 23
Jan. 30.	Paving,	Buffalo, N. Y.	Jan. 23
Jan. 30.	Tile drains,	Murdock, Ill.	Jan. 23
Jan. 30.	Bridge superstructure, etc.,	Chicago, Ill.	Jan. 23
Jan. 30.	Library,	Decatur, Ill.	Dec. 19
Jan. 31.	School,	Milwaukee, Wis.	Dec. 19
Jan. 31.	Electric plant, etc.,	New Orleans, La.	Nov. 28
Jan. 31.	Boilers, traveling crane, etc.,	Minneapolis	Dec. 5
Jan. 31.	Water-works,	Columbus Grove, O.	Jan. 9
Jan. 31.	Excavating (64,000 yds.),	Billings, Mont.	Jan. 16
Jan. 31.	Improvement bonds,	Ponce, P. R.	Jan. 23
Feb. 1.	Railway work (electric),	Portsmouth, Va.	Jan. 23
Feb. 1.	Bridges,	Des Moines, Ia.	Jan. 23
Feb. 1.	Sewers,	Akron, O.	Jan. 23
Feb. 1.	Building,	St. Louis, Mo.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 1.	Church,	Charleston, S. C.	Jan. 23
Feb. 1.	Schools,	Phoenix, Ariz.	Jan. 23
Feb. 1.	Water pipe (40,000 ft.),	Washington, D.C.	Jan. 16
	Advertised, Eng. News, Jan. 16.		
Feb. 1.	Water-works,	Albany, Minn.	Jan. 16
Feb. 3.	Paving, etc.,	Cincinnati, O.	Jan. 16
Feb. 3.	Ball-joint water pipe,	Atlantic City, N.J.	Jan. 16
	Advertised, Eng. News, Jan. 16 and 23.		
Feb. 3.	Water-works,	Garnett, Kan.	Jan. 16
	Advertised, Engineering News, Jan. 23.		
Feb. 3.	Building construction,	Washington, D.C.	Jan. 9
	Advertised, Eng. News, Jan. 9 to 30.		
Feb. 3.	Court house, etc.,	Tampa, Fla.	Jan. 9
Feb. 3.	Plans for building,	Rolla, Mo.	Jan. 9
Feb. 3.	Heating plant,	Rolla, Mo.	Jan. 9
Feb. 3.	Grading,	Vicksburg, Miss.	Jan. 23
Feb. 3.	Iron pipe (40 tons),	Minneapolis, Minn.	Jan. 23
Feb. 3.	Pumping engine,	Jeffersonville, Ind.	Jan. 23
Feb. 3.	Electric lighting,	Rome, N. Y.	Jan. 23
	Advertised, Engineering News, Jan. 23.		
Feb. 3.	Paving,	South Bend, Ind.	Jan. 23
Feb. 3.	Gravel roads,	Logansport, Ind.	Jan. 23
Feb. 3.	Sewer,	Coshocton, O.	Jan. 23
Feb. 3.	Jail,	Meridian, Miss.	Jan. 23
Feb. 4.	Road building (30 miles),	Winamac, Ind.	Jan. 23
Feb. 4.	Wharf,	New Orleans, La.	Jan. 23
Feb. 4.	Gravel roads, (12 miles),	Washington, Ind.	Jan. 23
Feb. 4.	Sewer pipe, brick, etc.,	St. Paul, Minn.	Jan. 23
Feb. 4.	Bridge,	Hamilton, O.	Jan. 23
Feb. 4.	Bridge repairs,	Stockton, Cal.	Jan. 23
Feb. 4.	Sewerage system,	Woodbury, N. J.	Jan. 9
	Advertised, Eng. News, Jan. 9 and 16.		
Feb. 4.	Buildings,	Decatur, Ill.	Jan. 16
Feb. 4.	Jail,	Irwinton, Ga.	Jan. 16
Feb. 5.	Water meters,	Calcutta, India	Dec. 26
Feb. 5.	Stand-pipe, etc.,	Rahway, N. J.	Jan. 2
	Advertised, Eng. News, Jan. 2 to 30.		
Feb. 5.	Power-house addition,	Richmond, Va.	Jan. 23
	Advertised, Engineering News, Jan. 23.		
Feb. 5.	School,	Dublin, Ga.	Jan. 23
Feb. 6.	Jail,	Brownwood, Tex.	Jan. 23
Feb. 6.	Iron and steel bridge,	Greensboro, Ga.	Jan. 9
Feb. 6.	Fire engines,	Shreveport, La.	Jan. 16
Feb. 6.	Court house,	Livingston, Ala.	Jan. 16
Feb. 6.	Public lighting,	Havana, Ill.	Jan. 16
	Advertised, Eng. News, Jan. 16 to 30.		
Feb. 7.	Building,	Newport, R. I.	Jan. 16
Feb. 7.	Wharf,	Washington, D. C.	Jan. 23
Feb. 7.	Paving,	Lima, O.	Jan. 23
Feb. 8.	Grading,	Youngstown, O.	Jan. 23
Feb. 8.	Sewers,	Youngstown, O.	Jan. 23
Feb. 8.	Sewerage system,	New Hartford, N. Y.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 8.	Railway work,	Washington, D. C.	Jan. 23
	Advertised, Engineering News, Jan. 23.		
Feb. 8.	City Hall,	Findlay, O.	Jan. 16
Feb. 8.	Plans for hospital,	Washington, D. C.	Jan. 2
Feb. 10.	Filtration plant, etc.,	Pittsburg, Pa.	Jan. 16
	Advertised, Eng. News, Jan. 16 and 23.		
Feb. 10.	City Hall,	Jacksonville, Fla.	Jan. 16
Feb. 10.	Building,	Rochester, N. Y.	Jan. 23
Feb. 10.	Building,	Des Moines, Ia.	Jan. 23
Feb. 11.	Paving,	Baton Rouge, La.	Jan. 23
Feb. 11.	Court house,	Elk Point, S. Dak.	Jan. 16
Feb. 12.	Irrigation canal,	Caldwell, Idaho.	Jan. 16
Feb. 12.	Dredging,	Chicago, Ill.	Dec. 26
Feb. 12.	Bridge (railway) work,	England	Jan. 23
Feb. 12.	Machinery, etc.,	Springfield, Mass.	Jan. 23
Feb. 12.	Plumbing, etc.,	Salt Lake City, Utah	Jan. 23
Feb. 12.	Water tower,	San Jose, Cal.	Jan. 23
Feb. 13.	Iron storehouses (3),	San Francisco, Cal.	Jan. 23
Feb. 14.	Railway,	Portugal.	Dec. 12
Feb. 14.	Water-works and sewers,	Ft. Fremont, S.C.	Jan. 16
Feb. 14.	Viaduct,	Williamsport, Ind.	Jan. 23
Feb. 14.	Bridge,	Wapakoneta, O.	Jan. 23
Feb. 14.	Road building (7½ miles),	Batavia, O.	Jan. 23
Feb. 14.	Gravel road,	Williamsport, Ind.	Jan. 23
Feb. 14.	Sewerage-water systems,	Ft Fremont, S.C.	Jan. 23
Feb. 15.	Building,	Boston, Mass.	Jan. 23
Feb. 15.	School,	West Concord, Minn.	Jan. 23
Feb. 15.	Court house and jail,	Sibley, Ia.	Jan. 23
Feb. 15.	Auditorium,	Omaha, Neb.	Oct. 3
Feb. 15.	Coaling plant,	Bremerton, Wash.	Jan. 9
Feb. 17.	Widening bridge,	London, Eng.	Dec. 26
Feb. 17.	Cement sidewalks,	Connorsville, Ind.	Jan. 9
Feb. 18.	Gravel road,	Toms River, N. J.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 18.	Post office,	Janesville, Wis.	Jan. 23
Feb. 20.	Light-house repairs,	Mobile, Ala.	Jan. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Feb. 20.	Court house,	Lufkin, Tex.	Jan. 23
Feb. 26.	Paving,	Hoboken, N. J.	Jan. 9
Mar. 1.	Road machinery,	New Zealand	Jan. 2
	Advertised, Eng. News, Jan. 2 to 16.		
Mar. 1.	Post office,	Preston, Ia.	Jan. 16
Mar. 1.	Memorial hall,	Rockford, Ill.	Jan. 23
Mar. 1.	School,	Scottsville, Ky.	Jan. 23
Mar. 3.	Water-works,	Mechanicsville, Ia.	Dec. 26
Mar. 3.	Water bonds,	Baker City, Ore.	Jan. 23
Mar. 3.	Bridge,	Castor, Va.	Jan. 23
Mar. 5.	Jail,	Vincennes, Ind.	Jan. 23
Mar. 5.	Pumping engine (sewage),	Chicago, Ill.	Jan. 9
Mar. 6.	Pier, freight house, etc.,	Matanzas, Cuba.	Jand. 23
	Advertised, Eng. News, Jan. 23 and 30.		
Mar. 7.	Tramway,	Shanghai, China.	Jan. 23
Mar. 15.	Bridges (2),	Lisbon, Portugal.	Jan. 16
Mar. 24.	Public lighting,	New Orleans, La.	Jan. 2
	Advertised, Eng. News, Jan. 2 and 16.		
Mar. 29.	St. improvement bonds,	Spartanburg, S.C.	Jan. 23
Mar. 31.	Electric tramways,	Rockhampton, Queensland.	Oct. 31
Mar. 31.	Bridge,	Sydney, N. S. W.	Jan. 16
	Advertised, Eng. News, June 20 to July 11, '01.		
Apr. 1.	Water-works,	Calumet, Mich.	Dec. 26
Apr. 1.	Buildings,	Allegheny, Pa.	Jan. 23
Sept. 1.	Bridge plans,	St. Petersburg, Russia.	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 3.		
No date.	Bridge,	Duluth, Minn.	Jan. 9
	Advertised, Eng. News, Jan. 9 and 16.		
No date.	Crushed stone,	Scranton, Pa.	Jan. 23
	Advertised, Engineering News, Jan. 23.		

RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—It is announced that the management has decided to spend $13,000,000 for equipment during the present year.

BEE LINE CONSTRUCTION CO.—The company has been incorporated in Missouri with a capital stock of $600,000, to build an extension of the Blackwell, Enid & Southwestern R. R. from Enid, Okla., to Vernon, Tex., a distance of about 170 miles. Breckenride Jones, Wm. D. Orthwein and August Gehner, St. Louis, are interested.

CALIFORNIA.—The California King Gold Mining Co., owning mining properties in the Picacho district, California, will construct about 4½ miles of track connecting its various works, at a cost of $14,000.

CHICAGO GREAT WESTERN.—The first contract for grading work on the proposed Sioux City-Omaha extension has been let to George M. Kepner, Lake City, Ia. The contract is for a fill one mile in length and 35 ft. high, along the east side of the Coon River, southwest of Lake City. About 300,000 cu. yds. of earth are to be removed.

CHICAGO, MILWAUKEE & ST. PAUL.—A recent press report states that A. J. Earling, Pres., has announced that the company has definitely decided to double-track the La Crosse Division, between Milwaukee and La Crosse, a distance of 197 miles. We have since been informed, however, that the probable intention of the company is to build a second track from Portage to La Crosse, Wis., instead of from Milwaukee to La Crosse, and use the Northern Division for second track from Milwaukee to Portage. It is expected that this work will take two years' time in completion. Pres. Earling has his office in Chicago.

CHICAGO & SHORE.—The Laporte & Michigan City Ry. Co., capitalized at $10,000, which was incorporated last June to build a railway between the cities named, has filed amended articles of incorporation in Indianapolis, changing its name to that of above. The proposition now is to build the line from Michigan City to Laporte and then on to the east line of Marshall, Elkhart, Kosciusko, Noble, Whitley and Allen counties; also from Laporte to the west line of Lake county, by way of Porter county.

CLEVELAND, LORAIN & WHEELING.—It is reported probable that the present terminal station of this road at Uhrichsville, O., will be removed to Warwick.

DECATUR & DANVILLE.—Work on the survey of this road has been started at Jasper, Ala. The line as now projected will run from Jasper, Walker county, to Decatur, having a total length of 80 miles.

HURON & BRUCE.—Application is being made to the Dominion Parliament for a charter to build a railway from Goderich to Wiarton, Ont., through Kincardine and Southampton, on the shore of Lake Huron, a distance of 100 miles.

ILLINOIS VALLEY R. R.—The directors of this company are considering the matter of constructing the line to Marseilles and La Salle. The company recently held an election of officers at Chicago, Ill., and J. L. Board was made President.

IRONDALE, BANCROFT & OTTAWA.—This road, which is now built from Kinmount on the Haliburton branch of the Grand Trunk R. R., to Bancroft, 50 miles east, and subsidized for another 15 miles, is to have 65 miles built this year. L. B. Howland, Pres., Irondale, Ont., is reported to have stated that financial arrangements have been made in New York for the completion of the work and a subsidy has been granted for the other 50 miles of the line. The terminus will be at a point near Caldwell.

INDIAN RIVER RY.—Application is being made for a charter to build a railway from a point on the railway lines at the northern end of Lake Megantic, Quebec, to a point on the international boundary line at the River Moose.

JACKSONVILLE & LAKE WORTH.—A company to be known by this name has been incorporated in Florida with a capital stock of $20,000. Its purpose will be to build and operate a railway from a point on the coast westerly across Lake Worth, thence to a point in township 39; then northerly through the counties of Dade, Brevard, Osceola and Orange, to a point on Lake Monroe, and from there by way of Orange, Marion, Lake, Putnam, Clay and Duval counties to Jacksonville, having a total length of about 300 miles. Hiram F. Harman, Geo. W. Lainhart and Wm. Lainhart, Jacksonville, are interested.

LARAMIE, HAHN'S PEAK & PACIFIC.—A contract has been awarded to John S. King for furnishing 100,000 ties to be used by this company on the line between Laramie and Centennial, Wyo.

LOUISVILLE & NASHVILLE.—It is rumored that a line will be built from Columbiana, Ala., to the Sughaw road, about seven miles. R. Montfort, Ch. Engr., Louisville, Ky.

MICHIGAN SOUTHERN.—This company has been incorporated with a capital stock of $200,000 for the purpose of operating a line of railway from Lansing to St. Johns, a distance of 18 miles. The incorporators include John E. Mills, Port Huron; Myron Mills, Marysville, and H. E. Waldridge, St. Johns.

NORTH SHORE R. R.—This company has been incorporated with a capital stock of $6,000,000, absorbing all the properties of the North Pacific Coast road. The new company will improve the old lines and extend them. R. R. Colgate, New York; John Martin and others are interested.

OKLAHOMA CITY & TEXAS.—G. V. McClure, Locating Engr., Quanah, Tex., informs us that all the rights of way and the capital for construction for this road and the Oklahoma City & Western R. R. have been secured and contracts are let. The principal contractors are Johnson Bros., successors to Johnson Bros. & Faucht. Subcontracts are let and work is well under way; about 30 miles of grading is completed. The length of the road will be about 188 miles. C. G. Jones, Pres.; W. P. Homan, Ch. Engr., Oklahoma City, Okla.

PINE BLUFF & WESTERN.—The contract for extending this road to Sheridan, Ark., from its present terminus, a distance of 10 miles, has been let to Reaves & Cook, of Little Rock, Ark. Upon the completion of this work the construction of the extensions giving direct connection with Hot Springs and Malvern will be started.

ST. LOUIS, MEMPHIS & SOUTHWESTERN.—This new company will build a line from Crystal City, Mo., to a connection with the St. Louis & San Francisco Ry., near St. Louis, a distance of 30 miles, and another line from Cape Girardeau to St. Louis. The contracts for construction have been awarded to Johnson Bros., and orders have been given for 20,000 tons of rails from the Cambria works and 9,000 tons from the Carnegie works. The company will also form a consolidation of the following minor roads: Cape Girardeau & Northern, Southern Missouri & Arkansas, St. Louis & Memphis; Hoxie, Pocahontas & Northern, and the Chester, Perryville & Ste. Genevieve. Capital stock, $1,500,000. Directors: Frederick H. Prince and Frederick Ayer, of Boston; Newman Erb and E. Summerfield, of New York; George H. Norman, Providence, R. I.; John Scullin, Hugh McKittrick and Charles Gilbert, St. Louis, and E. F. Blomeyer, Cape Girardeau, Mo.

SHREVEPORT & RED RIVER.—J. M. Phillips, Ch. Engr., Shreveport, La., informs us that the line between Cantti and Chestnut, La., will connect with the Louisiana & Arkansas Ry., and will be used principally for lumbering. It will pass through the longest belt of long-leaf pine in the state of Louisiana. The new line will be 13½ miles long. Wm. Edenborn, Pres., Empire Bldg., New York.

SOUTHERN PACIFIC.—E. H. Harriman, Pres., has authorized the letting of five contracts for straightening the road of the Central Pacific line. The work will cover about 87 miles of lines east of Vista, Nev., and will cost about $1,750,000.

VANDERBILT TIMBER, MINING & SOUTHWESTERN.—This line will have a total length of 135 miles and will touch at Alexander City and Montgomery, Ala. The rights of way have been secured and surveys have been made for a distance of 23 miles. About five miles is already built. The company is doing its own work. Geo. O. Vanderbilt, Pres., Princeton, N. J.; W. W. Summerlin, Gen. Mgr., Tallapoosa, Ga.

STREET AND ELECTRIC RAILWAYS.

NORTHAMPTON, MASS.—Local papers state that subscriptions towards the construction of the proposed Northampton, Deerfield & Greenfield Electric Ry. are being rapidly received. Action will shortly be taken by the directors of that company regarding the location of the route and the surveys.

SPRINGFIELD, MASS.—Joseph Tucker, Pres. Pittsfield St. Ry. Co., has announced that the company will accept the franchise for the extension of its lines through Dalton. ——The question of extending the Woronoco St. Ry. Co.'s line to Hampton ponds is now being considered by the directors. It will probably be arranged so that the extension can be built this summer.

HARTFORD, CONN.—It is reported likely that the Connecticut Ry. & Lighting Co. will extend its Berlin line to East Berlin in the spring. A line between Waterbury and South Meriden is also under consideration. J. E. Sewell, Gen. Mgr., Bridgeport.

ADDISON, N. Y.—C. E. Bailey, Highway Comr. of the town of Erwin, has granted a franchise to Brown, Jones & Co., New York, to construct and maintain a street surface railway from Painted Post through Erwin to Addison. The franchise is void if building operations are not begun within 18 months.

UTICA, N. Y.—The surveys have been completed by the Utica & Mohawk Valley R. R. Co.'s engineers for the extension to be built down the Sauquoit Valley next summer. John J. Stanley, Gen. Mgr.

ITHACA, N. Y.—A company of local capitalists is now being formed for the purpose of building the proposed trolley railway from this place to Auburn. It is expected that the work will be started in the near future. The right of way has been secured from Auburn to King Ferry and from Ludlowville to Ithaca. The line will follow the old bed of the Ithaca, Auburn & Western R. R. for a

greater part of the distance. Dexter Williams, Popular Ridge; Dedra Holt, Port Huron, and Sherman Collins, Ithaca, are among the promoters.

ATLANTIC CITY, N. J.—It is stated that the Delaware River & Atlantic City Ry. Co. is making an effort to build a trolley line between Gloucester and this city.

ALTOONA, PA.—The managers of the Altoona City Passenger and Logan Valley railways have decided on a number of improvements and extensions to their lines. The cost of the improvements will be over $250,000. S. G. De Coursey, Pres.

PITTSBURG, PA.—The stockholders of the Meyerdale & Salisbury St. Ry. Co. have increased the capital stock from $36,000 to $250,000, and have decided to commence the construction of their line between those points in the early spring. J. B. Townsend was appointed engineer of construction, and will make surveys for the eight miles of line so that the contracts may be let. A private right of way has been secured. M. S. Stokes, Pres., Philadelphia; W. N. Staub, Vice-Pres., and A. O. Lorentz, Gen. Mgr., Pittsburg.

SELLERSVILLE, PA.—The Lehigh Valley Traction Co. will erect a power house here to generate 4,000 HP., to operate the line between Quakertown and Chestnut Hill.

SHARON, PA.—The Penhale Devitt Syndicate, of New York, will issue $1,000,000 in bonds for building a street railway between Sharon and New Castle, 21 miles, according to reports.

TITUSVILLE, PA.—The Titusville Electric St. Ry. has passed into the hands of its new owners, who propose to extend the line to Meadville.

WASHINGTON, D. C.—Bids are wanted by the Washington & Annapolis Electric Ry. until Feb. 8 for the grading of 31 miles of double-track between Washington and Baltimore, Md., as stated in our advertising columns. James Christy, Jr., Vice-President and Gen. Mgr., Bond Bldg., Washington.

NEW CASTLE, VA.—Z. T. Kale, of this place, writes us that he is contemplating applying for a charter for an electric road from Roanoke, Va., passing through a rich mineral and agricultural district and running to New Castle; and from there to Ripplemead. The length of the line between the two first-named counties will be 27 miles, and the latter 35 miles. Mr. Kale is now interesting capital in the enterprise.

PORTSMOUTH, VA.—Bids are wanted by the Norfolk, Portsmouth & Newport News Ry., 302 High St., until Feb. 1 for the laying of tracks, erecting poles, etc., in the construction of the High St., Park View and South Portsmouth extensions. A. J. Phillips, Secy.

RICHMOND, VA.—Bids are wanted by the Virginia Electrical Ry. & Development Co. until Feb. 5 for the extension of its power house. Specifications and plans will be ready at the company's office Jan. 22. The chief item of work is about 7,500 cu. yds. of concrete of various classes, as stated in our advertising columns. R. Shirreffs, Ch. Engr.

JACKSON, GA.—Work will soon be started on the construction of the Jackson & Indian Spring electric car line. Surveys have been made. The power plant, capable of generating 7,500 HP., will be located at the Thomas Shoals, in the Ocmulgee River, seven miles from here.

NASHVILLE, TENN.—The Suburban St. Ry. Co. has been organized here to establish a street railway on the Harding Pike. The company is capitalized at $50,000. Thos. J. Fielder, A. H. Robinson and S. J. Keith are interested.

LOUISVILLE, KY.—The Louisville Ry. Co. will open bids Jan. 20 for $250,000 in bonds for the purpose of raising funds for the betterment of the system.

PARIS, KY.—The county court has granted a franchise to Thos. Judy, Chas. Menge, Carlton Lew, George Clay and others of North Middletown for building and operating an electric line from North Middletown to Fayette county line. Work will commence within 12 months.

DELAWARE, O.—A company has been organized here to build an electric railway from this city to Sunbury. W. H. Knauss, Pres.; E. F. Gwynn, Vice-Pres.; J. M. Gamble, Treas.

KENTON, O.—The contract for the construction of the Kenton & Dayton Electric line has been let to Falk Bros., Milwaukee, Wis.

SPRINGFIELD, O.—The Dayton, Springfield & Urbana Electric Ry. will double track its line from Dayton to Springfield, and in addition to this work will eliminate the curves and replace the trestles with substantial steel bridges, expending between those points about $500,000. The materials to be used have been secured and work will begin at once. The company will extend its line from Urbana to Bellefontaine this year, and thence to Springfield as soon thereafter as possible. C. A. Alderman, Engr., will begin work on the plans for these new lines in a short time.

WILMINGTON, O.—Bids are asked until Jan. 30 for the construction and operation of a street railway on route No. 2. Lee Baker, Village Clk.

XENIA, O.—Articles of incorporation have been filed by the Xenia, Cedarville, Jamestown & Wilmington Electric Ry. Co., capitalized at $1,000, for the purpose of promoting an electric railway between these points. Dr. J. E. Lowes, Dayton; J. H. Wolford, Cedarville, and M. J. Hartley, Xenia, are interested.

ELWOOD, IND.—The survey of the extension of the Union Traction Co.'s line from this city to Tipton has been completed and the grading will shortly begin. Chief Engineer Bloss has been busy the past week getting things in shape for beginning the work. The extension will be 10 miles long.

JEFFERSONVILLE, IND.—Geo. H. Holzbog, Secy. Jeffersonville, New Albany & Sellersburg Rapid Transit Co., informs us that the company expects to begin construction in the spring. The line will be 20 miles long. Louis Schneck, Pres., Seymour; C. W. Kelley, Ch. Engr., Jeffersonville.

LAPORTE, IND.—The Chicago & South Shore Ry. Co. has been organized to construct an electric railway between this place and Michigan City. W. C. Burns, Chicago; G. K. Rippley, Goshen, Ind.; C. H. Holmes, Green Bay, Wis., and Lemuel Darrow, Lapore, are interested.

VINCENNES, IND.—The county commissioners have granted a franchise to Elmore F. Cox, of Greene county; J. W. Wilson and H. R. Snyder, Petersburg, to build an interurban electric railway from Vincennes to Jasper. It is stated the road has been financed and that work will be started at once.

BAY CITY, MICH.—A. J. Little, Electrical Engr. and Mgr. Standard Engineering Co., Detroit, has been looking over the route of the proposed electric railway from Bay City to Harbor Beach. Mr. Little has reported favorably on the route and states that the construction can be done at a minimum cost. It is expected that work on the surveys will be started within the next 10 days.

CHICAGO, ILL.—The stockholders of the Northwestern Elevated R. R. will meet on Jan. 29, when the matter of extending the line to Ravenswood will be decided on.

DANVILLE, ILL.—The Danville St. Ry. & Light Co. has decided to build a line from this city to Catlin and work will begin on it as soon as the right of way is secured. The distance is about five miles. S. L. Nelson, Gen. Mgr., Danville.

DIXON, ILL.—Articles of incorporation have been filed by the Aurora, De Kalb & Rockford Electric Traction Co. to build a line from Aurora through the counties of Kane, De Kalb, Ogle and Winnebago to Rockford. The capital stock is $100,000. H. W. Nichols, C. C. Davis and W. P. Kopf, Chicago, are interested.

LA SALLE, ILL.—The Illinois Valley Traction Co., recently organized, proposes to build a line this year between Ottawa and Princeton. The company is capitalized at $500,000. The plan is to connect Ottawa via Utica, La Salle and Peru to Spring Valley at once and later to extend the line to Ladd, Seatonville and Princeton. The line connecting Ottawa and Spring Valley is expected to be completed within six months. N. W. Duncan, La Salle; Edward Woodman, Portland, Me., and W. B. McKinley, Champaign, are interested.——The power house and all the cars of the Peru-La Salle Electric St. Ry. were destroyed by fire on Jan. 15, the loss reaching $50,000.

CEDAR RAPIDS, IA.—The Cedar Rapids, Iowa City & Southern Ry. Co. has been incorporated, and surveys have been made from Cedar Rapids to Iowa City, 30 miles; maximum grade, 1%; sharpest curves, 3°; track to be laid with 70-lb. rails. It is expected to let contracts at once, and to commence work as soon as the frost is out of the ground. There will be three iron bridges. Freight traffic is to be handled. W. G. Dows, Pres., Cedar Rapids, Ia.

MINNEAPOLIS, MINN.—It is reported that the Twin City Rapid Transit Co. will not furnish power for the operation of the St. Louis Park & Hopkins car line and that the owner, T. B. Walker, is contemplating the erection of a plant.

DEADWOOD, S. DAK.—The council has granted a franchise to Milton C. Conners and associates for building an electric railway connecting Deadwood, Central City and Spearfish. Spearfish and Chicago capitalists propose to build the line.

ST. LOUIS, MO.—The Union Traction Co., of East St. Louis, will increase its capital stock from $50,000 to $500,000, and will commence work immediately on the construction of an electric line from Gross Park to Collinsville and Caseyville and to various other points, according to reports. C. A. Marens, Ch. Engr.

BAKERSFIELD, CAL.—M. Verdier and Geo. K. Lacoste have made application for a franchise to build and operate a single track railway from Kern City to Offer's Resort.

NAPA, CAL.—It is reported that the officers of the Bay Counties Power Co. are considering the advisability of running an electric street car line from Calistoga to Sausalito. Other extensions are also in contemplation.

ELECTRIC LIGHT AND POWER.

DEXTER, ME.—Reports state that a new dam will be built at North Dexter at once. Jasper Johnson, Engr., Bangor, Me.; Henry Hudson is interested.

AMHERST, MASS.—The Amherst Gas Co. has let the following contracts for the electric plant: 600-HP. Corliss engine, 18 x 36 x 42 ins., Pennsylvania Iron Works, Philadelphia; electrical apparatus, General Electric Co., Schenectady, N. Y.

ARLINGTON, MASS.—The question of building an electric plant is being considered. A. W. Sparhawk, Chn. Bd. of Selectmen.

BROCKTON, MASS.—The question of building a city electric plant is being considered. Alderman Handrahan may be addressed.

MARBLEHEAD, MASS.—The council is considering the feasibility of building a municipal electric light plant.

CANANDAIGUA, N. Y.—W. H. Warfield, Pres., writes us that on Jan. 14 the town voted to have a board of fire and light commissioners. Lights are now furnished by a private company. A newspaper report states that the question of a municipal plant is being considered.

ROCHESTER, N. Y.—Reports state that the Municipal Gas & Electric Co., of Rochester, has applied for a franchise in this city. C. K. G. Billings, New York, is the president of the company.

ROME, N. Y.—Bids are asked until Feb. 3 for lighting the streets with electricity for two, four or six years, as stated in our advertising columns. E. B. Fuller, Chn. Com.; K. S. Putnam, Chamberlain.

CAMDEN, N. J.—Harry Kuemmerle, Builder, Betz Bldg., Philadelphia, Pa., is reported as receiving subbids for a 2½-story power station on Federal St. for the Pennsylvania R. R.——Local reports state that the council will soon consider the question of building an electric plant.

FRANKLIN, PA.—The Franklin Light, Heat & Power Co., recently formed, is reported as arranging to build its proposed plant. Gen. Miller and J. S. Coffin are interested.

PITCAIRN, PA.—The question of issuing $26,000 worth of bonds for the establishment of an electric light plant will be voted upon Feb. 18.

NORRISTOWN, PA.—The Montgomery County Subway Co. wants a franchise for underground lines in this city and the matter will be voted upon in February.

WRIGHTSVILLE, PA.—The matter of lighting this place with either incandescent or arc lights is being considered.

BALTIMORE, MD.—Wm. F. Zimmerman, Elec. Engr.; Geo. K. McGaw and the Continental Trust Co., of Baltimore, are interested in a scheme to develop the water power of the Susquehanna River, the power to be transmitted to Baltimore. It is said that the United Rys. & Electric Co. will become interested.

MANCHESTER, VA.—Bids were asked until Jan. 15 for furnishng an electric or gas plant to the city, under contract for five years from April 1. W. W. Pool, Chn. Com.

RICHMOND, VA.—Bids are asked until Feb. 5 for extending the power house of the Virginia Electrical Ry. & Development Co. R. Shirreffs, Ch. Engr.

NEW MARTINSVILLE, W. VA.—Frank B. Hall, Pres., New Martinsville St., Heat & Power Co., writes us that the contract for building the new steam electric plant of the company has been let to the Mountain State Electric Co., Wheeling, W. Va. The plant is to cost $25,000, and is to be capable of furnishing 40 arc lights and 2,600 incandescent lamps.

NEWBERN, N. C.—We are informed that the city has issued bonds for an electric plant, which is to be completed in 90 days. The plant is to have a capacity of 75 arc and 1,600 incandescent lights. F. T. Patterson, Mayor.

ABBEVILLE, S. C.—The electric apparatus owned by the Abbeville Electric Light & Power Co. and the pumping machinery owned by the city was partly destroyed by fire recently.

BENNETTSVILLE, S. C.—J. M. Jackson, Chn. Bd. Pub. Wks., writes us that it is proposed to build an electric plant to have 40 2,000-c. p. arc and 1,000 incandescent lights, to cost $12,000. Mr. Jackson is desirous of engaging an electrical engineer to prepare plans and specifications and to assist in letting the contract.

BIRMINGHAM, ALA.—Local papers state that the Birmingham Ry., Light & Power Co. has let contracts for doubling the capacity of its plants, including the electric road, at a cost of about $2,000,000. The contract for the two twin non-condensing Corliss engines, 36 x 60, has been let to the Birmingham Machine & Foundry Co., and that for the electric apparatus to the General Electric Co., of New York.

PRATT CITY, ALA.—The question of granting a franchise to another electric light company is being considered.

NEW ORLEANS, LA.—Plans and specifications are about completed by City Engineer Hardee for the proposed city electric plant, and it is likely that bids will be asked in a short time. It is estimated that $125,000 a year will be required to operate the plant.

HAZLEHURST, MISS.—We are informed that bids for a municipal electric plant, to be built in Hazlehurst, will probably be received about the middle of March. The specifications are in course of preparation, and will not be in shape before Feb. 15. Coleman & Malochee, Des. Engrs., New Orleans, La.

ELIZABETHTOWN, TENN.—The Watanga Land Co. proposes to build a water-power plant, a large furnace, etc. The power plant will develop about 8,000 HP.

NASHVILLE, TENN.—The board of public works has let the contract for furnishing the city with 280 miles of wire in connection with electric light plant to the Southern Electrical Co., of Nashville, at $7,583.

LOUISVILLE, KY.—According to reports the directors of the Louisville Gas Co. have decided upon various improvements, among which is the laying of 12 miles of new gas mains.

CINCINNATI, O.—The Cincinnati Gas & Electric Co. has let the contract to Guy M. Gest, of Cincinnati, for conduits for the underground wires for the entire arc system of the city. There will be over 40 miles of conduits, and the contract price is about $300,000. The entire change will cost about $1,000,000.

WYOMING, O.—Reports state that the Wyoming Electric Light, Heating & Power Co. will be transferred to the Universal Electric Light Co. S. A. Clark, Secy.

BRAZIL, IND.—A suit has been brought against the city to enjoin it from letting a 10-year contract for lighting this place to the Brazil Brewing, Ice & Power Co. H. M. Bailey, Mayor.

ALBION, MICH.—The question of building an electric plant in connection with the water-works is being considered.

ALLEGAN, MICH.—The Grand Rapids, Kalamazoo & South Haven Traction Co. has been granted permission to build a power dam across the Kalamazoo River.

BERRIEN SPRINGS, MICH.—Chas. A. Chapin, of Chicago, Ill., has been granted a franchise for a power plant and dam on the St. Joseph River at Berrien Springs, to cost about $500,000. The Chapin syndicate controls the Berrien Springs Electric Power Co.

COLDWATER, MICH.—The Michigan Hydraulic & Electric Co. will build four dams in the St. Joseph River to develop power, which will be transmitted electrically to different points for street railway, lighting and power purposes. The height will be 16 to 26 ft., and the smaller dams may be of rock-filled crib construction, while the larger ones may be of concrete. F. W. Stewart, Gen. Mgr., Coldwater, Mich.; A. T. Maltby, Consult. Engr., 1212 Fisher Building, Chicago, Ill.

HOLLAND, MICH.—An election will be held in April to vote on the question of issuing $75,000 in binds for a gas plant or grant a franchise.

PONTIAC, MICH.—The Pontiac Gas & Electric Co. on Jan. 10 passed into the hands of the H. D. Walbridge syndicate, who owns gas plans in Kalamazoo, Saginaw and Jackson. Mr. Walbridge was formerly manager of the Detroit Gas Co. He paid $135,000 for the Pontiac plant, and will file a trust mortgage to secure a $300,000 bond issue, of which $135,000 is the purchase price and $15,000 for improvements. The other $150,000 will remain in the hands of the trustee, to be issued should occasion require, for further betterments.

CHICAGO, ILL.—Local papers state that the Chicago Edison Co. proposes to greatly improve its plant.

EVANSTON, ILL.—The Evanston Yaryan Co. proposes to build another electric plant in this city in the near future.

MOLINE, ILL.—Deere & Co. are reported to have ordered machinery, etc., for its proposed electric plant, to cost about $100,000.

MENOMINEE, WIS.—The Menominee Gas Co.'s plant has been acquired by the Menominee Electric Light & Street Ry. Co.

MENOMONEE FALLS, WIS.—The Wisconsin Sugar Co. has been granted a franchise for an electric plant, and M. A. Schmoyer & Co. a franchise for a telephone system.

CEDAR FALLS, IA.—The Cedar Falls Electric Light & Power Co. has asked for a franchise for a gas plant. The Star Gas Co., a new concern, has also asked for a franchise. The gas plant will cost about $100,000.

HUDSON, IA.—A franchise for a light plant and a telephone system in this place has been granted to J. E. Strayer.

MUSCATINE, IA.—The council has granted a 10-year franchise to J. L. Giesler and W. L. Roach for an electric plant.

MILFORD, NEB.—This place is considering the municipal lighting plant question.

WHITE SULPHUR SPRINGS, MONT.—Aldermen Penwell and Manger have been appointed a special committee to investigate the matter of a municipal electric lighting plant.

ST. LOUIS, MO.—Local papers state that the World's Fair managers have let the contract for the electric plant, etc., to the Westinghouse Electric & Mfg. Co., of Pittsburg, Pa. The plant will consist of 10,667 HP. and will cost about $1,000,000. The Citizens' Electric Light & Power Co. will furnish half of the power at a cost of about $500,000.——Chancellor W. S. Chaplin, of Washington University, has let the contract to the General Electric Co., of Schenectady, N. Y., for a power plant, etc., for the university.

NEWPORT, ARK.—W. H. Hippolite and others have been granted a franchise for a gas plant.

ITASCA, TEX.—Reports state that Jas. W. Hackaday proposes to build an electric plant of 1,500-light capacity, to be later increased to about 4,000 lights.

WHARTON, TEX.—Thos. C. Gordon has asked for a franchise for an electric plant to cost $10,000, work on which will soon be begun by J. D. Lee, of Owensboro, Ky.

COLORADO SPRINGS, COLO.—Local papers state that F. H. Arcularius, A. Joe Ward and F. E. Robinson are considering the question of building an electric plant in opposition to the Colorado Springs Electric Co.

EL RENO, OKLA. TER.—The franchise and property of the El Reno Electric Light & Telephone Co. have been sold by W. Story Sherman to Larsen and John A. Masters for $17,500.

TACOMA, WASH.—Councilman Hammond has introduced a resolution calling for new bids for electric lighting.

BAKER CITY, ORE.—Reports state that A. B. Fraine proposes to build an electric plant to cost about $200,000.

CLOVERDALE, CAL.—A local company has been formed to build an electric plant to furnish light and power to Cloverdale, Geyserville, Asti and Lytton. Dams will be built at the junction of Big and Little Sulphur Creeks, four miles from Cloverdale. A. Sbarboro, Secy. Italian Swiss Colony at Asti, Cal., is interested.

SONORA, CAL.—Charles T. Sinder has applied for a franchise to construct and maintain poles, wires, etc., along the roads in Tuolumne county, and the supervisors have called for bids for the franchise until March 3. J. B. Doyle, Clk.

SALT LAKE CITY, UTAH.—The Utah Light & Power Co. proposes to construct a dam and power plant in Ogden Canyon, to cost about $250,000.

ANNAPOLIS, N. S.—This place has voted to spend $12,000 in rebuilding its plant.

MONTREAL, QUE.—The Montreal Light, Heat & Power Co., owning the gas and electric light plants of Montreal, has sold $2,500,000 30-year 4½% bonds, and the Bay of Quinte Ry. Co. of Ontario, of which E. W. Rathbun is President, has issued $650,000 25-year 5% bonds. These loans were taken by a Chicago bond house.

BRIDGES.

GREENVILLE JUNCTION, ME.—The Canadian Pacific Ry. Co. will replace the wooden bridge over the Bangor & Aroostook Ry. tracks with a permanent structure, the contract for the substructure of which has been let to John Duffy, Bangor.

RUMFORD FALLS, ME.—A survey has been made for the Swift River bridge, which will be 170 ft. long and 18 ft. wide.

BUFFALO, N. Y.—We are informed that the following bids were received on Dec. 23 for constructing the superstructure for a viaduct over the railroads in Louisana St., as advertised in Eng. News: Buffalo Structural Steel Co., $114,400; American Bridge Co., New York, $118,114; King Bridge Co., Cleveland, O., $124,866; Boston Bridge Works, Beaver Falls, Pa., $132,650.

LITTLE FALLS, N. Y.—An iron bridge will be erected over the West Shore R. R. tracks at Gibraltar Cut to replace the present wooden structure.

TABERG, N. Y.—The Oswego Iron Bridge Co. has been awarded a contract, at $4,590, for a one-span truss bridge, 127 ft. long, with 16-ft. driveway and 5-ft. sidewalk, and to make the present iron structure into three small bridges.

PRINCETON JUNCTION, N. J.—It is reported that the Pennsylvania R. R. has prepared plans for a bridge over the tracks at this place.

ALTOONA, PA.—Assistant City Engineer McFalls has made a survey for a bridge from 9th Ave. to 11th Ave.

HANCOCK, PA.—It is estimated that it will cost about $7,000 to rebuild the bridge and roads in this town damaged by the December flood.

HUDSON, PA.—The commissioners are considering the matter of replacing the Miner St. bridge, which was swept away by the recent floods.

KEATING, PA.—A petition will be sent to the county commissioners asking that a bridge be erected over Sinnemahoning Creek.

NORTH WALES, PA.—An ordinance is before the council providing for a bridge across the North Pennsylvania R. R. at Pennsylvania Ave. Final action will be taken on Feb. 10. Irwin G. Lukens, Clk. of Council.

PITTSBURG, PA.—There is $560,000 available for bridge construction, $180,000 of which will be expended on the Lincoln Ave. bridge and the remainder on the South Tenth St. structure. J. Guy McCandless, Dir. Pub. Wks.——The Pittsburg Construction Co. has been awarded a contract by the Pennsylvania R. R. for replacing the 1,300-ft. steel bridge over Saw Mill Run, at the West End, with a stone structure. The steel bridge will be reconstructed over the White River at Richmond, Ind.

PITTSBURG, PA.—Bids are asked until Jan. 23 for removing the four wooden spans and North River pier of the South Tenth St. bridge. J. Guy McCandless, Dir. Pub. Wks.

TOWANDA, PA.—Viewers have been appointed in the matter of rebuilding and replacing nine county bridges destroyed by the December floods.

CASTOR, VA.—Bids are asked until March 3 for constructing a 333-ft. bridge of two spans over Staunton River, near Hurt. J. B. Stone, Comr.; C. L. De Mott, Engr., Lynchburg.

WEST DAMASCUS, VA.—Several bridges on the Beaver Dam R. R. have been destroyed or damaged to the extent of about $5,000.

BENWOOD, W. VA.—The Bellaire, Benwood & Wheeling Bridge Co. has applied for a franchise to construct a bridge, and the council will consider the matter in February.

PARKERSBURG, W. VA.—It is reported that the Wabash R. R. has let a contract, at about $1,000,000, for a bridge across the Ohio River here, to connect the proposed road from Janesville, O., with the Little Kanawha Ry. at that place.

WESTON, W. VA.—The county court will arrange for the immediate construction of two iron bridges, one over Polk Creek, at Weston, and the other over Canoe Run, near Roanoke.

ANDERSON, S. C.—Reports state that bids are asked by the county commissioners for rebuilding the steel bridge at Earle's bridge at a cost of about $5,000.

COLUMBUS, GA.—Preliminary plans are being prepared for a steel bridge across the river at 14th St., and bids will be asked as soon as a plan has been accepted by the council committee.

LAWRENCEVILLE, GA.—The county commissioners are considering the question of building an iron bridge at Rock Bridge.

ROME, GA.—The county commissioners have let a contract for repairing the various bridges entering the city, at about $10,000.

SAVANNAH, GA.—The Georgia & Alabama Terminal Co. is endeavoring to secure congressional authority to construct a rolling lift bridge to connect the city and Hutchinson's Island.

VICKSBURG, MISS.—City Engineer Polk will prepare specifications and estimates for a brick arch or steel truss bridge.

BAKERVILLE, TENN.—Press reports state that iron bridges will probably be built across Duck and Buffalo Rivers in this county.

BRISTOL, TENN.—The bridges on the East Tennessee & Western North Carolina Ry., which were washed out by the recent floods, have been temporarily restored, and it is understood that the company will construct steel structures as soon as a contract can be let for the material.

ELIZABETHTON, TENN.—Carter county has appropriated $2,500 for the Butler bridge, which is to be built by Carter and Johnson counties.

HUNTSVILLE, TENN.—William York, Jasper Hughett and Joel Robinson have been appointed a committee to receive bids for a bridge over New River, which will cost about $5,000.

NASHVILLE, TENN.—The Ashville Bridge & Construction Co. has been awarded a contract for constructing two steel bridges for the county.

AKRON, O.—The proposed bridge at Falor St. will be 242½ ft. long, 42 ft. wide, of concrete and steel construction, and will cost about $25,000.

DAYTON, O.—A petition is being circulated asking that a bridge be constructed over the Miami River at Third St.

HAMILTON, O.—Bids are asked until Feb. 4 for constructing an iron or steel highway bridge in Morgan Township. Chr. Pabst, County Audr.

NEW CASTLE, O.—The Canton Bridge Co. has been awarded a contract, at $5,780, for the superstructure for the Owl Creek Bridge.

WAPAKONETA, O.—Bids are asked until Feb. 14 for constructing a bridge having two spans of 75 ft. each, 16 ft. roadway, 8 miles north of St. Marys. Samuel Craig, County Surv.

YOUNGSTOWN, O.—Petitions will be circulated asking for a bridge over the Erie R. R. tracks from Belmont Ave. to Federal St., and the question may be submitted to a vote.

INDIANAPOLIS, IND.—The Washington St. bridge over White River has collapsed.

SOUTH BEND, IND.—City Engineer Hammond has recommended that four bridges be constructed.

WILLIAMSPORT, IND.—Bids are asked until Feb. 14 for constructing a 430-ft. viaduct, 50 ft. high, on the Independence and Green Hill road. W. H. Genomer, County Engr.

SAGINAW, MICH.—The council has decided to readvertise for bids for constructing the Genesee Ave. bridge.

CHICAGO, ILL.—Press reports state that bids are being received by the Chicago, Milwaukee & St. Paul R. R. for constructing 19 steel bridges, which will cost about $600,000.

CHICAGO, ILL.—Bids are asked until Jan. 30 for constructing the substructure and approaches for a highway bridge over the north branch of the Chicago River at West Division St. F. W. Blockl, Comr. Pub. Wks.

MILWAUKEE, WIS.—Mayor Rose has recommended that a bascule bridge be erected at Muskego Ave..

DES MOINES, IA.—Bids are reported wanted by the Interurban Ry. Co. until Feb. 1 for bridging along the line to Colfax.

WATERLOO, IA.—J. R. Vaughan, Secy. Gen. Com., writes us that plans for the Bridge St. bridge over Cedar River, which will be of steel or concrete on a stone foundation, and will have seven spans of 75 ft. each, 60 ft. wide, were submitted to the county supervisors on Jan. 18, and that bids will be asked immediately after plans have been approved; estimated cost, $50,000. M. L. Newton, Des. Engr.

DULUTH, MINN.—The following bids were received on Jan. 8 for constructing a bridge over the St. Louis River at the Byrne and Iron Mountain Road junction: Hewitt Bridge Co., $2,535; J. L. Johnson, $2,768 and $3,668; Joliet Bridge & Iron Co., $2,782, $2,624 and $2,711; M. A. Adams, $3,127; American Bridge Co., $2,750 and $2,460 (awarded contract at $2,460).

LITTLE FALLS, MINN.—F. W. Cappelen, Minneapolis, has been engaged to prepare plans for and superintend the construction of a steel bridge across the Mississippi River, which will cost about $40,000.

PLATTSMOUTH, NEB.—Mayor Tom E. Parmele writes us that the proposed pontoon bridge across the Missouri River will be 800 ft. long and cost about $15,000, and that he would like to communicate with bridge contractors.

SIOUX FALLS, S. DAK.—The following bids on three different plans were received on Jan. 9 by the county commissioners for constructing the superstructure for the Third Ward bridge: Midland Bridge Co., $4,800, $5,100 and $5,450; Hewitt Bridge Co., $4,570, $4,870 and $5,300; Marsh Bridge Co., $4,790, $5,115 and $5,320; L. H. Johnson, $4,599, $4,750 and $5,050; Canton Bridge Co., $4,490, $4,390 and $4,900; W. S. Hewitt, $4,650, $4,725 and $5,130; C. E. H. Campbell, $4,989, $5,205 and $5,273; Standard Bridge Co., $4,760, $5,060 and $5,273; American Bridge Co., $4,600, $4,595 and $5,200.

SANTE FE, N. MEX.—The Santa Fe Central Ry. has agreed to erect a viaduct over the Santa Fe tracks near Oritz, where a union station will be built and a town founded.

PENDLETON, ORE.—The Washington & Columbia River R. R. will build a 300-ft. bridge across the Umatilla River at Pendleton, at a cost of $30,000 (contract let), a 700-ft. bridge across the Walla Walla River at Wallula, at a cost of $50,000, and a 500-ft. structure across the Touchet River at Riverside, at a cost of $35,000.

REDLANDS, CAL.—J. B. Glover, Chn. Bd. Supervisors, writes us that Samuel Leffler, San Bernardino, has been awarded a contract, at $1,358, for constructing three large culverts. M. L. Cook, County Surv.

SANTA BARBARA, CAL.—Specifications for a bridge across Mission Creek at Anapamu St. have been adopted by the council and the clerk instructed to advertise for bids.

STOCKTON, CAL.—The following bids have been received for constructing a steel bridge over the Mekelumne River at Lockeford: San Francisco Bridge Co., $4,638; Clark & Henery, $3,943 (awarded contract); American Bridge Co., $4,090; Healy, Tibbitts & Co., $5,180; Clinton Bridge & Iron Works, $4,600; W. B. White, $4,414; Tumelty & Sons, $4,656; Hyde Construction Co., $4,741.——Bids are asked until Feb. 4 for raising and repairing the bridge at Middle River. Otto Grunsky, Clk. Supervisors.

TUCSON, ARIZ.—Reports state that the El Paso, Phoenix & Cal. Southern R. R. will construct a bridge 1,700 ft. long across Salt River, one 1,000 ft. long across Gila River, one 800 ft. long across Agua Fria River, and one 400 ft. long across Hassayampa River. John J. Hodnett, Vice-Pres. and Mgr.

HALIFAX, N. S.—P. S. Archibald has completed the preliminary surveys for the proposed Strait of Canso bridge. The bridge will have a span of about 1,800 ft., a 1,250 ft. approach on the Cape Briton side and a 700-ft. approach on the Nova Scotia side.

BUILDINGS.

BOSTON, MASS.—Bids are asked until Feb. 15 for constructing a brick and steel building at the navy yard, Boston, to cost about $170,000. M. T. Endicott, Chn. Bureau Yards and Docks, Navy Dept., Washington, D. C.

CAMBRIDGE, MASS.—G. C. Matthews and M. H. Miller have redrawn their plans for the branch of the public library in Ward Five, at Massachusetts Ave. and Creighton St. The building will be of stone, two stories high, 46 × 95 ft. Daniel H. Woodbury, Arch., 1101 Exchange St., Boston.

HOWARD, R. I.—Bids are asked until Feb. 4 for installing systems of heating, plumbing, gas piping, electric wiring, etc., in the new dining hall, service and ward buildings, boiler house and connections now under construction for the State Hospital. Frank F. Olney, Chn. Com. Bldgs. and Repairs, Bd. of Charities and Corrections, Providence.

PROVIDENCE, R. I.—Plans are now being prepared by Wright & Isham, Archs., of this city, for the main building for the proposed exposition of mechanical arts and industries, to be 40 ft. high, 326 × 122 ft.

NEW YORK, N. Y.—The Hyde & Behman Amusement Co. announces its intention of building a theatre in this city, to have a seating capacity of 2,100 and to cost $800,000.——A movement is on foot to erect a united fine arts exhibition building, at a cost of about $1,500,000. A committee composed of Chas. R. Lamb, J. Carroll Beckwith, Robert W. Gibson, Spencer Trask and Frank Fowler has been appointed to investigate the plan.——Joseph Fleischman, florist, has announced that he has completed the purchase of property in East 31st St., near Fifth Ave., and will erect an apartment house costing about $1,000,000.——The West End Amusement Co., recently incorporated, will build a theater in Harlem, to cost about $150,000. A Bimberg, Pres.——Manhattan College has purchased a tract of 12 acres in The Bronx, where, next spring, it will build a group of college buildings costing about $300,000.——The Alliance Realty Co. has sold the Chickering Hall property to H. Corn, who, it is stated, will erect an 11-story office and loft building. The plot is 135 × 78 ft.——The Butterick Mfg. Co. is to build a 16-story fireproof building at Spring, Macdougal and Vandam Sts., to cost $1,000,000.——The New York Zoological Association has asked for an appropriation of $500,000 for improvements for its zoological garden in The Bronx. It is believed that a set of new buildings will be erected.——Blair & Co., bankers, have bought property at Broad St. and Exchange Place, northwest corner, and will erect thereon a 10-story building.

NEW YORK, N. Y.—Plans have been filed by J. H. Hammond, 14 East 72d St., for a 5-story brick dwelling, 55 × 87 × 49 ft., in 91st St., to cost $200,000. Carrere & Hastings, Archs., 28 East 41st St.; by J. E. Thrall, 312 West 89th St., for a 5-story brick storage building, 60 × 100 ft., at 1 and 3 Front St., to cost $60,000. F. M. Wright, Arch., 503 Fifth Ave.; by the Y. M. C. A., of 156 Fifth Ave., for an 8 and 9-story club-house, 75 × 197 ft., at 206-12 West 24th St., to cost $500,000. Parish & Schroeder, Archs., 3 West 29th St.; by Henry Corn, Hotel Majestic, for a 12-story brick building at 137 Fifth Ave., to cost $155,000. Robt. Maynicke, Arch., 725 Broadway; by the Beacon Hill Real Estate Co., 40 Wall St., for alterations to a 4-story brick office building at 259 Fifth Ave., to cost $51,000. B. Price, Arch., 1133 Broadway.

POUGHKEEPSIE, N. Y.—The board of supervisors have awarded the contract for the new court house and jail to John Dyer, Jr., of Albany, at $100,000. The contract includes the carpenter and mason work and the fireproofing. The building will be three stories.

ROCHESTER, N. Y.—Bids are asked until Feb. 10 for the erection of the Masonic Temple building on Clinton Ave. North, corner of Mortimer St. F. C. Malling, Chn. Bldg. Com.

WEST POINT, N. Y.—The following bids were received on Jan. 14 for constructing officers' mess and quarters, as advertised in Engineering News: P. J. Carlin & Co., 26 Court St., Brooklyn, $107,996; Kehr & Felton, Buffalo, $109,412; John H. Parker Co., 225 Fourth Ave., New York, $103,000; J. E. & A. L. Pennock, 305 Walnut St., Philadelphia, Pa., $114,787; James O'Toole & Son, 1064 Elsmere Place, New York, $110,950; Isaac A. Hopper & Son, Inc., 160 Fifth Ave., New York, $117,978; Norcross Brothers Co., Worcester, Mass., $114,000; Grace & Hyde Co., 7 East 42d St., New York, $110,000; A. W. Reynolds, Binghamton, $117,453.

DELANCO, N. J.—Chas. A Zeigler, Arch., Philadelphia, Pa., has prepared plans and specifications for the erection of a school building in this place, bids for which will be received on Feb. 10. It will be a 3-story brick and stone building.

ALLEGHENY, PA.—Bids will be received about April 1 for the new buildings for the Allegheny General Hospital, Stockton Ave., which will cost about $325,000. Beezer Bros., Archs., 6202 Penn Ave., Pittsburg, have prepared the plans.——The Norwegian Lutheran Deaconesses' Home and Hospital in Brooklyn has received a donation of $64,000, which is to be used towards erecting the proposed new building for that institution, to cost $100,000.——It is announced that the Pittsburg & Western R. R. and the Pennsylvania R. R. officials are planning to make the new Ft. Wayne station a union station.

HARRISBURG, PA.—The trustees of the State Lunatic Hospital are about ready to call for bids for the construction of one of the new buildings for which the funds were appropriated at the last session of the legislature. The cost of this structure, which will contain a kitchen, store room and servants' quarters, will be about $40,000. The other buildings for which appropriations were made will cost $35,000 and $70,000, respectively, but the plans for these have not yet been adopted.

HARRISBURG, PA.—The plans for the Philadelphia & Reading Ry. freight offices and station to be erected in this city have been completed and are now on exhibition in the office of Dixon G. Fitzgeller, Freight Agent. Bids for the erection of the new buildings will be called for within a few days, and the work will be started on March 1. The building will be located on Market St., and will be V-shaped 288 × 110 × 45 ft., and 2½ stories high; estimated cost, $200,000. A. F. Smith, Arch., Reading.

PHILADELPHIA, PA.—The contract for the remodeling of the old Maritime Exchange building, at Third and Walnut Sts., to cost $160,585, has been let to H. E. Wells, local bidders, who have secured a permit for erecting the building. The plans are by Louis C. Hickman, Arch.——Lewis Haven's Sons will erect an 8-story wholesale dry goods and notions building at 1216-20 Arch St. for Young, Smyth, Field & Co., to cost $200,000.

PITTSBURG, PA.—Plans are being prepared by Chas. Bickel, Arch., for an 8-story building for Augustus and Richard Hartje, of the Hartje Paper Mfg. Co., to be used for warehouse purposes.——The site for the East End branch of the Carnegie Library has been purchased by the board of trustees. The new building will cost $100,000. After this building is erected, there will remain one branch to be built, that for the South Side. W. N. Frew, Chn.——Jonah Barach will erect a 6-story brick store and office building at a cost of $45,000 at 511 Wylie Ave.——The Cathedral Lyceum Association expects to have a new building in this city within a year. The improvement will probably cost $50,000.——Henry Phipps has purchased from F. F. Nicola the property at Duquesne Way and Fifth Ave., and will erect an office building in the spring.

WESTCHESTER, PA.—Bids are reported wanted until Jan. 27 by the building committee for the construction of the 3-story stone and steel library building for the Westchester State Normal School, to cost $50,000. Baker & Dallett, Archs., 1420 Chestnut St., Philadelphia. J. P. Thomas, Chn. Com.

YORK, PA.—The grand jury recommends the improvement of the jail in this city, at a cost not to exceed $15,000.——The school board has awarded the contract for the erection of the 12-room school building at King and Albemarle Sts. to Harry Kneer, Altoona, at $38,300. The bids were as follows: Philip Anns Co., Philadelphia, $41,619; Gilbert & Co., $43,025; J. A. Sheridan, Baltimore, $52,502; Calvin Boyer, York, $44,992; Frank C. Werner, York, $41,400; Howard N. Wolf, York, $48,738; Jacob Seachrist's Sons, York, $47,233; J. L. Menough, York, $49,280; N. B. Shambaugh, La Bott, $40,900; E. S. Hollinger, York, $53,945.

WASHINGTON, D. C.—Middaugh & Shannon, builders, have purchased property in Bloomingdale and will erect a block of 2-story houses.——Work on a 6-story apartment house will soon be started. T. M. Medford, Arch., has drawn plans for the building, which will be fireproof, of brick and steel construction, and cost about $60,000. Mrs. Lydia Tilton, owner.

CHARLESTON, S. C.—Bids are wanted until Feb. 1 for the construction of the Trinity Methodist Church. Bradford L. Gilbert, Arch.; G. W. Walker, Secy.

ATLANTA, GA.—Bids are asked until Jan. 25 for the construction of a 2-story school building in the town of Oglethorpe, Ga. Leon C. Greer, Mayor.——J. F. Leary writes us that the new 8-story apartment house which he will erect will follow the designs of W. F. Denny, Arch., who is at present completing the same. They will call for a building 100 × 100 ft., of steel and fireproof construction, costing about $150,000. Steam heating, elevators, gas and electric lights will be installed.

DUBLIN, GA.—Bids are asked until Feb. 5 for the erection of a school. Geo. C. Thompson, Arch., Dublin.

HAWKINSVILLE, GA.—Bids are wanted by the county commissioners until March 6 for the construction of a jail for Pulaski county, to be two stories, 41 × 65 ft. R. W. Anderson, Chn.

HAZLEHURST, LA.—The contract for the erection of the Copiah county court house has been let to G. T. Hallis & Co., Atlanta, at $44,603.

MERIDIAN, MISS.—Bids are asked by the board of supervisors until Feb. 3 for the erection of a new jail, to cost in the neighborhood of $30,000. B. V. White, Clk.——The city boards are in favor of a bond issue for $40,000 to be used for the construction of an additional school building.

VICKSBURG, MISS.—Working plans and specifications for the new jail, to be located on the western side of Court House Hill, will be drawn by Wm. Stanton & Sons, Archs., for submittal to the board of supervisors at the meeting next month.

CHATTANOOGA, TENN.—The council has voted to accept the proposition of Andrew Carnegie to give $50,000 to establish a library in this city.

NASHVILLE, TENN.—The Vendome Theatre, destroyed by fire, is to be rebuilt. The loss was about $50,000, and it is stated that a new structure can be put up in the place of the former one for that amount. A. H. Robinson, Pres. Hermitage Theatre Co.——It is reported probable that a new $100,000 office building will be erected by the Sunday School Board of the Southern Baptist Church in this city. A building committee, as follows, is to investigate the matter: A. B. Hill, C. C. Slaughter, C. C. Savage, Roger Eastman and W. C. Cleveland.

SCOTTSVILLE, KY.—Bids will be received until March 1 for erecting a new school building in the Clifton district. R. E. Stovall, Chn.

CANTON, O.—Plans, specifications and estimates are reported wanted until Jan. 25 for the new market house and auditorium. The market house site is 200 × 200 ft., and the second floor, to be used as an auditorium, will have a seating capacity of 4,500 people. C. C. Lloyd, Cy. Clk.; Wm. Lichtenwalter, Chn. Com.

CINCINNATI, O.—President Ayres, of the University of Cincinnati, has requested the students to devise means of raising $75,000 for the erection of a gymnasium.

CLEVELAND, O.—A new 10-story business and apartment house will be erected at Prospect and Granger Sts. by Edward S. Hartman and Clark Bishop. The cost of the structure will be $50,000.

COLUMBUS, O.—The plans for the new physics building for the Ohio State University are not yet completed. Peters, Burns & Pretzinger, Archs., 26 Kuhns Bldg.——Andrew Carnegie has offered $150,000 to this city for a new library. The offer has been accepted.

TOLEDO, O.—The Spitzer Arcade Co. will erect a new building on the Walbridge estate at a cost of $100,000.

WARREN, O.—The trustees of the Warren Masonic Temple Association have decided to begin at once preparations for the erection of the new building in this city, to cost $40,000.

YOUNGSTOWN, O.—Henry Wick has purchased property on Wick Ave., opposite the court house, and will erect a brick block.

CHICAGO, ILL.—Arthur Orr and Wm. R. Linn have purchased property between West Lake and Randolph Sts. and will erect thereon a 13-story building, to cost about $500,000.——Harry J. Furber, Jr., President Olympian Games Association of Chicago, has received preliminary plans for the stadium in which the athletic contests of 1904 will be held. The stadium will seat 75,000 people.——A. Montgomery Ward plans to erect a 16-story building, 100 × 163 ft., in Michigan Ave. Nothing definite has been done at this time.——Chas. E. Rector will build a 5-story steel constructed building on Monroe St., to be 98 × 90 ft.——The site for the hospital to be built by the Chicago Polyclinic and Hospital has been selected at La Salle Ave. and Oak St. The new structure will cost $250,000.——The grain elevator at 51st St. and the Panhandle tracks were destroyed by fire on Jan. 13. The building was valued at $75,000, and was the J. Weil branch of the American Malting Co.

ROCKFORD, ILL.—Bids are asked until March 1 for the construction of the memorial hall building. J. B. Whitehead, Secy. Bldg. Com., 408 Brown Bldg.

HARTFORD CITY, IND.—W. B. Cooley will build a 4-story business block on the public square to replace the building recently destroyed by fire. The structure will cost about $40,000.

RICHMOND, IND.—Reports state that bids will be opened next month for the women's cottage for the Eastern Indiana Hospital for the Insane in this city, to cost $30,000. John A. Hasecoster, Arch.

VINCENNES, IND.—Bids are asked until March 5 for the erection of the proposed new jail and sheriff's residence. J. D. Williams, County Audr.; J. W. Gaddis, Arch., Vincennes.

DETROIT, MICH.—Waldo H. Avery will build a 10 or 12-story building in Griswold St., costing about $750,000.——Charlton, Gilbert & DeMar, Archs., Marquette, have prepared plans for a court house for Marquette county, to be three stories, 150 × 90 ft., and to cost $100,000.

JANESVILLE, WIS.—Bids are asked until Feb. 18 for the construction of the U. S. postoffice at this place. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

MILWAUKEE, WIS.—The statutory committee has accepted the plans of Henry G. Lotter, Arch., for the new 21st Ward school building, to be erected at Fratney St. and Concordia Ave., at a cost of $55,000.

DAVENPORT, IA.—The question of raising $200,000 in bonds for the construction of a new high school building will be voted on at the spring election.

DES MOINES, IA.—Bids are asked until Feb. 10 for constructing a new county poor house. M. P. Sharts, County Audr.

IOWA CITY, IA.—The contract for building the new high school has been let to Sheets & Freyder at $51,000.

SIBLEY, IA.—Bids are asked until Feb. 15 for erecting a court house and jail to cost $50,000, according to reports. Kinney & Deitweiler, Archs., Austin, Minn.

MINNEAPOLIS, MINN.—The new Mills hotel for this city will probably be located on the site of the present St. James Hotel, Washington and Second Aves. It will cost about $250,000. Work will be started in the spring.

PIPESTONE, MINN.—Bids are asked until Jan. 30 for constructing a barn, warehouse, baths, etc., at this place. W. A. Jones, Comr. Indian Affairs, Dept. of Interior, Washington, D. C.

ST. PAUL, MINN.—Foley Bros. & Kelly propose to erect a large brick building in the rear of the Great Northern general offices, to cost in the neighborhood of $250,000.

WEST CONCORD, MINN.—Bids are asked until Feb. 15 for the erection of a school building. H. H. Orcutt, Clk.

KANSAS CITY, MO.—W. E. Sullivan, Pres. and Gen. Mgr. Globe Storage & Transfer Co., has completed arrangements for the erection of a storage warehouse on the west side of Main St., between 17th and 18th Sts. The building will be six stories, 50 × 135 ft. James Oliver Hogg, Arch., has prepared the plans.——The Atchison, Topeka & Santa Fe Ry. Co. has secured a permit for a brick freight depot at 14th and Hickory Sts., to cost $47,000.

ST. LOUIS, MO.—Bids are wanted by the Louisiana Purchase Exposition Co. until Feb. 1 for the construction of the Varied Industries Building, as stated in our advertising columns. Isaac S. Taylor, Dir. Wks., 503 Odd Fellows Bldg., St. Louis.

ST. LOUIS, MO.—It is planned by the Y. M. C. A. to erect a building in this city, costing something like $100,000. W. F. Fitzgerald, Pres.

BROWNWOOD, TEX.—Bids are asked until Feb. 6 for erecting a stone or brick fireproof jail, to cost not more than $30,000, according to reports. W. D. McChristy, County Clk.

GALVESTON, TEX.—The contract for erecting the Carnegie library in this city has been let to Martin & Moodie.

LUFKIN, TEX.—Bids are asked until Feb. 20 for the erection of a new court house in this city. J. T. Maroney, County Judge.

DENVER, COLO.—Bids are asked until Jan. 24 for reconstructing the city hall (except the heating and power plant, plumbing and gas piping, elevator and mail chute). R. R. Wright, Mayor, and Chn. Reconstruction Com.

SEATTLE, WASH.—The board of public works received the following bids on Jan. 11 for the construction of the new fire department headquarters building to be erected at Jackson St. and Third Ave. South, (1) building according to plans, (2) same with certain deductions: Wolf & Erickson, (1) $49,600, (2) $5,500; Bringham & Hoska, (1) $54,663, (2) $6,845; David Dow & Co., (1) $49,775, (2) $5,725; Megrath & DuHamil, (1) $48,155, (2) $6,739; Alex. Pearson, (1) $47,984, (2) $5,662; Soderquist & Roseleaf, (1) $49,300, (2) $5,910; Alton Behrens, (1) $49,011, (2) $5,229; Shannon, White & Middleton, (1) $49,185, (2) $5,039; F. M. Gribble & Co., (1) $49,793, (2) $5,884; Causey & Carney, (1) $49,959, (2) $6,695.

ALAMEDA, CAL.—Wilcox & Curtis, Archs., of San Francisco, has been awarded first prize for plans for the Carnegie library at Oak St. and Santa Clara Ave., to cost about $30,000.

LOS ANGELES, CAL.—Plans for the new county jail are now being considered. It is reported that the iron work for the jail will cost from $50,000 to $75,000.

SAN FRANCISCO, CAL.—Bids are asked until Feb. 13 for the construction of three iron storehouses at the Presidio. D. D. Wheeler, Deputy Q. M.-Gen.——Chas. A. Zinkard proposes to erect an apartment house on Pacific Ave., to cost about $75,000. The building will be equipped with electric and heating plants, and an electric passenger elevator. Salfield & Kohlberg, Archs.

PHOENIX, ARIZ.—Bids are asked until Feb. 1 for the construction of two school houses in this city. H. P. De Mund, 147 East Fourth St.

SALT LAKE CITY, UTAH.—Bids are asked until Feb. 12 for furnishing the hot water plant and the plumbing at the Utah State Prison. Geo. N. Dow, Warden.

WATER-WORKS.

GARDNER, MASS.—The water committee, composed of Chas. Heywood, Thatcher B. Dunn, Aaron L. Greenwood, Ezra Osgood and Thos. Greenwood, has submitted its report in favor of purchasing the works of the Gardner Water Co.

LAWRENCE, MASS.—The water board has recommended that a new covered filter should be put in. M. F. Collins, Supt.; Dan'l Gallagher, Pres. Water Bd.

SPRINGFIELD, MASS.—C. M. Slocum, Cy. Engr., writes us that no steps have yet been taken towards securing an appropriation or plans for a new water supply.

PROVIDENCE, R. I.—Robt. E. Smith, Comr. Pub. Wks., writes us that no steps have yet been taken toward building a filtration plant further than the appointment of a committee of the city council to consider the matter.

CHAPPAQUA, N. Y.—The Newcastle Water Co. has been incorporated with a capital of $70,000 by Alfred Q. Valentine, of Chappaqua, Edwin A. Guinsburg, of New York, and Robt. E. Farley, of White Plains, N. Y.

MINEOLA, N. Y.—The Manhasset Water Co., incorporated about three years ago, has secured an option on the works owned by Frank Riley, and proposes to lay new mains at once.

MOUNT STERLING, N. Y.—Sturtevant & Todd, 1208 Fisher Bldg., Chicago, are preparing plans for works. The contract will probably be let in April.

NIAGARA FALLS, N. Y.—The La Salle Water-Works Co., which secures its water supply from the Niagara River, has offered to furnish this city with water, or to buy the city works.

ONEIDA, N. Y.—A. E. Loomis, of the board of public works, writes us that this city proposes in 1902 to lay 2,000 ft. of water mains and a mile of sewers, 7 to 18 ft. deep. About $18,000 worth of brick paving will be laid.

WAYLAND, N. Y.—The council is reported as considering a proposition to build works in this place.

DOVER, N. J.—At the election Jan. 14 this place voted to buy the franchises, property, etc., of the Dover Water Co. for $70,000. The town is putting in driven wells and building high and low-pressure reservoirs. D. R. Hummer, Clk. Bd. Water Comrs.

HALEDON, N. J.—The Manchester township committee will soon submit its report on works and a sewerage system for this place.

MATAWAN, N. J.—Reports state that this place is about to build works to cost $30,000. E. Chalkly Hatton, Engr., Wilmington, Del.

ALBION, PA.—The Albion Water Co. will ask for a charter Feb. 3 to build works. Edward H. Utley, Jas. K. Dain and John S. Matson are interested.

HAMMONTON, N. J.—E. Batchelor, Chn. Fire, Water and Light Com., writes us that this town will vote Jan. 29 on the question of issuing $30,000 in bonds for works. J. L. O'Donnell, Clk.

HIGHSPIRE, PA.—The Highspire Water Co. has let the contracts for building its works and laying the mains to Edgar Kay, of Cornell University, Ithaca, N. Y., and work has been begun.

JERSEY SHORE, PA.—F. Frank Gray, Clk., writes us that the Jersey Shore Water Co. proposes to lay about 13 miles of mains to obtain a water supply from Larry's Creek, 10 miles from and 300 ft. above the town.

MONACA, PA.—J. P. Leaf, Cy. Engr., of Rochester, Pa., is preparing plans for a 2,000,000-gallon reservoir for the new works. The contract for a 2,000,000-gallon pumping engine will soon be let. New mains and a suction line into the river will also be laid.

NEW FREEDOM, PA.—This place will vote in February on the question of issuing $10,000 in bonds for erecting works.

PITTSBURG, PA.—Bids are asked until Feb. 24 for furnishing the materials and for constructing the proposed filter plant, etc., as described in our advertising columns. Postponement from Feb. 10. J. O. Brown, Cy. Recdr.; J. G. McCandless, Dir. Dept. Pub. Wks.; Allen Hazen, Consult. Engr., New York.——The question of extending the water mains at a cost of about $1,000,000 is being considered. A. B. Shepherd, Supt.; J. O. Brown, Recdr.

RICHLAND STATION, PA.—Reports state that the Richland Water Co. is preparing to extend its works, the contract for the pipe having already been let.

SOUTH BETHLEHEM, PA.—Charters have been granted by the State Department to the South Bethlehem Water Co. and the Plockhoy Water Co. and the Northampton Heights Water Co., each with a capital stock of $1,000, by John O. Gilmore and Jos. A. Vandergrift, Wayne, Pa.; Newton Jackson, Oak Lane, Pa.; and Henry R. Swartzley, North Wales, Pa.

SOUTH BETHLEHEM, PA.—Thos. Ganez, Borough Secy., writes us that the council is asking for bids for the purchase of $100,000 of bonds for use in building the proposed system.

HAGERSTOWN, MD.—Reports state that the American Pipe Mfg. Co. of Philadelphia, has been awarded a contract by the Washington County Water-Works for constructing a 1,000,000,000-gallon reservoir to cost about $100,000. The water company has increased its capital stock from $80,000 to $160,000.

BRISTOL, VA.—A committee is considering the question of securing a new water supply from Preston's Spring, five miles from here. The Bristol-Goodson Water Co. will not furnish this place with water after January, 1903. W. H. Price, Jr., Clk.

SOUTH BOSTON, VA.—An engineer has been engaged to prepare plans for works and a sewerage system.

ELIZABETH CITY, N. C.—C. M. Ferebee and Geo. W. Ward have asked for a franchise for an electric plant, and P. H. Williams, of Norfolk, Va., and I. M. Melkins, Jr., and G. W. Ward for franchises for works.

SANFORD, N. C.—This city has voted $15,000 in bonds and will begin construction at once on the proposed works.

BENNETTSVILLE, S. C.—This place has issued $17,000 of bonds for works and an electric plant, and it is probable that work will begin at once. Pop., 2,500.

FLORENCE, S. C.—The commissioner of public works has let the following contracts for works: Cast-iron water pipe, 737 tons, U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, $18,763; two 100-HP. boilers, C. L. Bomest & Co., Florence, at $995; three pumps, heater, etc., Henry R. Worthington, Brooklyn, N. Y., $2,385.

WALHALLA, S. C.—The Blue Ridge Water Co. has decided to begin work at once on its proposed plant. The water will be secured from Stumphouse Mountain, a distance of five miles. J. W. Shelor, Pres.; J. W. Holleman, Secy. and Supt.; W. L. Vernen, Treas.

PENSACOLA, FLA.—Bids are reported as wanted by W. M. Pitt for a standpipe and storage reservoir.

ALEXANDRIA, LA.—Ira W. Sylvester, Cy. Engr., writes us that the following bids were received Jan. 7 for an air-lift compressor of duplex type having a capacity of about 500 cu. ft. of pure air per minute, and designed to deliver air at a pressure of 100 lbs.: Rand Drill Co., New York, $2,180; A. M. Lockett & Co., New Orleans, $3,000; McKiernan Drill Co., New York, $2,050; Ingersoll-Sergeant Drill Co., New York, $2,200.

TERRY, MISS.—Bids are asked until Feb. 18 for constructing works, as stated in our advertising columns. C. H. Jenks, Engr., St. Louis, Mo.; Eugene Simpson, Secy. and Treas.

COLUMBUS, O.—The board of public works has adopted Director Immel's plans for a water meter system.

IRONTON, O.—Geo. H. Benzenburg, of Milwaukee, Wis., is reported to have been engaged to investigate the matter of a pure water supply.

MADISONVILLE, O.—Bids are asked until Jan. 28 for furnishing the materials and for constructing a water tower and tank and extending the mains. J. A. Hosbrook, Engr., Room 429, Pike Bldg., Cincinnati, O.; D. E. Sauer, Clk.

MANSFIELD, O.—This place has voted not to issue $25,000 in bonds for works. Other arrangements for improving the system will be made.

SPRINGFIELD, O.—Ulrich & Williams have been awarded the first contract, at about $15,000, for laying supplementary water pipe for the proposed improvements to the work, to cost about $60,000.

DETROIT, MICH.—Bids are asked until Feb. 12 for furnishing 4,000 tons of cast-iron water pipe, as stated in our advertising columns. Benj. F. Guiney, Secy. Bd. Water Comrs.

WOODMERE, MICH.—This place has sold $83,000 of bonds for the proposed works, which will include about 26 miles of mains. Address Clerk Warncke and Mayor Higgins.

ALTON, ILL.—The Citizens' National Bank Syndicate has asked for a franchise for works.

BLOOMINGTON, ILL.—The council proposes to build a reservoir 100 ft. wide and about 250 ft. long. L. B. Thomas, Pres. Bd. Local Improvements.

DANVILLE, ILL.—The Danville Water Co. proposes to extend the mains, build filters and make other improvements, to cost about $100,000.

DIXON, ILL.—The village board has voted to issue bonds for works.

LAKE FOREST, ILL.—Reports state that this city is negotiating to buy the works of the Lake Forest Water Co. for about $90,000.

MORTON, ILL.—Berger Bros. has assumed control of the city water-works.

RIVERDALE, ILL.—We are informed that the Chicago Bridge & Iron Works has been awarded the contract for elevated steel tank and tower, the Fort Wayne Foundry & Machine Co. that for the gasoline engines, and J. P. Miller & Co., Chicago, that for the water supply.

WOODHULL, ILL.—W. A. Davis, Village Clk., writes us that bids for a well for the water supply for the new works, to cost $16,000, will be received at once. Plans and specifications for the works are not yet completed. T. S. McClanahan, Engr., Monmouth, Ill.; O. A. Sherman, Cy. Engr.

WYOMING, ILL.—Bids are asked until Feb. 10 for constructing works. H. A. Hammond, Cy. Engr.

ARCADIA, WIS.—This place will issue $15,000 in bonds at once for building works, according to reports.

BARABOO, WIS.—We are informed that a test well for a new water supply has been sunk. The test will be conducted by W. G. Kirchoffer, Cy. Engr.

NEW GLARUS, WIS.—W. G. Kirchoffer, of Baraboo, Wis., has been engaged to prepare plans and specifications for works to cost $11,000, for which bonds were issued Jan. 9. S. A. Chindler, Pres., writes us that the contract will probably soon be let. Pop., 600.

PRAIRIE DU CHIEN, WIS.—An election will soon be held to vote on the question of issuing $27,000 in bonds for extending the works.

SUPERIOR, WIS.—Alderman Ennis is urging the city to build a filtration plant.

CEDAR RAPIDS, IA.—This place will vote in the spring on the question of the municipal ownership of the works.

KAHOKA, IA.—Reports state that this place will build works and an electric plant.

CLOQUET, MINN.—Bids are asked until 7 p. m., Jan. 23, for the purchase of $20,000 of bonds for water, light and sewer purposes. P. E. McGugin, Recdr.

DETROIT, MINN.—An election will soon be held to vote on the question of issuing bonds for works.

DULUTH, MINN.—The council is arranging to condemn the property of the West Duluth Water Co., with a view to the city's purchasing the same. Address Mayor Hugo.

DULUTH, MINN.—The court has decided that this city may issue $60,000 in bonds for extending the mains to Woodland.

MINNEAPOLIS, MINN.—Bids are asked until Jan. 31 for the structural steel and ironwork for pumping station No. 4. L. A. Lydiard, Cy. Clk.; G. W. Sublette, Cy. Engr.

CANEY, KAN.—This place proposes to build works, according to reports.

GARNETT, KAN.—Bids are asked until Feb. 3 for constructing a partial system of water-works, etc., as described in our advertising columns. Burns & McDonnell, Consult. Engrs., Postal Telegraph Bldg., Kansas City, Mo.; T. M. Hamilton, Cy. Clk.

LEAVENWORTH, KAN.—The U. S. engineers have about completed surveys for a pumping station, mains, reservoir, etc., at Fort Leavenworth, to cost $115,000.—Henry Ettenson has submitted a proposition to take over and operate the works. Address Councilmen Jos. Bloom and J. P. Bauserman.

MILFORD, NEB.—It is proposed to build works and an electric plant. Address T. A. Healy and L. O. Howard.

JAMESTOWN, N. DAK.—Bids are asked until Feb. 11 for a steel tower and water tank for the N. Dak. Hospital for the Insane. John Milsted, Steward.

KAHOKA, MO.—Geo. W. Henry, Cy. Clk., writes us that most of the contracts for the works now being built have been let. The water supply will be pumped from a deep well by a Cook deep-well pump. G. C. Morgan, Engr., Royal Insurance Bldg., Chicago; W. F. Gregg, Supt.

LIBERTY, MO.—B. A. Gow, Cy. Clk., writes us that this place has voted to issue $43,000 in bonds for works, but only preliminary plans have so far been completed. Pop., 2,600.

CROSBY, TEX.—Bids are asked until Feb. 15 for constructing a rice irrigation plant, to include a pump of 70,000 gallons of water a minute, a continuous lift, etc. John W. Maxcy, Consult. Engr., Houston, Tex.

DALLAS, TEX.—This city is reported to have voted to issue $50,000 in bonds for completing the works.

SEALY, TEX.—A. Ludwig, Ch. Engr., writes us that surveys for an irrigating canal about 50 miles long, from San Felippe, Austin county, to Damar's Mound, in Fort Bend county, have been made. Work will soon begin.

GALVESTON, TEX.—The Fort Bend Irrigation & Canal Co. has been incorporated with a capital of $20,000 by D. W. Kempner, T. J. Groce and B. P. Reading.

SAN ANGELO, TEX.—Bids are asked by the San Angelo Water-Works Co. for furnishing a 20 × 100-ft. standpipe, as stated in our advertising columns.

WEBSTER, TEX.—Bids are asked by O. M. Whitcomb, of Webster, for sinking two test wells for a rice irrigation plant.

EDMUNDS, WASH.—Bids are asked until Feb. 18 for the purchase of $6,100 of 5% water-works bonds. W. H. Schumacher, Town Treas.

TACOMA, WASH.—The water committee has prepared estimates for a water supply for South Tacoma, to cost about $25,000.

BAKER CITY, ORE.—Bids are asked by the city clerk until March 3 for the purchase of $45,000 of 5% bonds for extending the gravity works.

EUREKA, CAL.—The Eureka Improvement Co. is urging the construction of works, to cost about $175,000.

GLENDALE, CAL.—The Independent Water Co. of Glendale has been incorporated, with a capital of $25,000, by E. T. Bryan, J. P. Couse and Geo. P. Boynton.

RIO VISTA, CAL.—Bids are asked until Jan. 30 for the purchase of $20,000 of 6% water bonds. We are informed that the proposed works will consist of two 50,000-gallon wooden tanks, 12,400 ft. of 4 and 6-in. c.-i. pipe, 3,800 ft. of 1 and 1½-in. pipe, 22 gate valves, 16 double-nozzle hydrants, pumps to furnish 300 gallons of water a minute, 150 ft. high, filter plant, etc. E. N. Eagen, Engr., Fairfield, Cal.; F. J. Kalber, Town Clk.

SAN DIEGO, CAL.—The council will soon call an election to vote on the question of issuing $400,000 in bonds for paving, new water mains, sewers, etc.

SAN JOSE, CAL.—Bids are asked until Feb. 12 for erecting a steel water tower at the Agnew State Hospital. T. S. Montgomery, Secy. and Treas.

SALT LAKE CITY, UTAH.—F. L. Hines, Supt. Water-Works, has reported in favor of installing water meters. Address Mayor Thompson.

MONTREAL, QUE.—The water committee is urging the council to take up the matter of buying a new pump, to cost about $38,000.

SEWERAGE.

WAKEFIELD, MASS.—Bids are asked until Jan. 28 by the sewer commissioners for finishing sections 1, 2 and 3 of the sewerage system. Orlando K. Morgan, Ch. Engr.

NEW HARTFORD, N. Y.—Bids are asked until Feb. 8 for constructing a sewerage system consisting of 4½ miles of pipe sewers with manholes, flushtanks and disposal works, as stated in our advertising columns. Richard R. Davis, Pres. Bd. Trustees. A. M. Scripture, Engr.

NEW YORK, N. Y.—A bill will be presented to the legislature providing for the construction of a main sewer in the Flatbush section at a cost of $250,000.

SARATOGA SPRINGS, N. Y.—This place is considering the adoption of a sewage disposal system. The legislature is to be requested to give the city power to issue bonds for cost of same and contracts are to be advertised soon. H. F. Thomas, Clk. Sewer Comn.

UTICA, N. Y.—The preliminary survey for the intersecting trunk sewer is to be started at once and will probably be completed by August. Edward M. Rich, Asst. Cy. Engr.

AVALON, N. J.—It has been voted at a special election to extend the sewerage system.

MORRISTOWN, N. J.—A resolution has been passed authorizing the sewerage committee to draft a bill to be presented to the legislature empowering the town to issue bonds for a sewerage system which will require about 50,200 ft. of pipe at an estimated cost of $160,000. Address Mayor Fox.

DANVILLE, PA.—J. Murray Africa, Civil Engr., has completed plans and specifications for a sewerage system which will cost about $70,000.

HANOVER, PA.—A. R. Brodbeck, Pres. Bd. of Trade, writes us that the question of a sewage-disposal plant is being considered and that paving the streets is contemplated.

READING, PA.—City Engineer Murdoch has estimated the cost of constructing a storm-water sewer from Sixth and Franklin Sts. to the river at $40,000, and of extending the intercepting sewer from 11th and Douglass Sts. to Elm, to 12th, to Walnut at $38,000.

SCRANTON, PA.—An ordinance has been introduced in the council providing for sewers in the 20th Ward.

WEST HAZLETON, PA.—The council will apply for right of way to construct a sewer into the Gravel Run Creek.

DOVER, DEL.—The council has decided to ask for bids for preparing plans for a sewerage system and, it is thought, upon the acceptance of a plan, application will be made to the legislature for authority to issue bonds for the work.

BALTIMORE, MD.—Contracts will be let during the winter for sewer and street improvements, which will be commenced in April. Address City Engineer Fendall.

HYATTSVILLE, MD.—The water committee has been requested to report on the subject of disposing of the storm water until a sewerage system is installed. Dr. Joseph R. Owens, Pres. Council.

HARRISONBURG, VA.—The following bids have been received for constructing a sewer in South Main St.: Thomas & Co., $2,362; John C. Burke, $2,486.

ANDERSON, S. C.—B. C. Maxwell, Clk. Council, writes us that an election will be held on Feb. 7 to vote on the question of issuing bonds for a sewerage system. J. L. Ludlow, Des. Engr., Winston, N. C.

COLUMBIA, S. C.—Mayor F. S. Earle writes us that $50,000 has been appropriated for sewers this year, and that a like sum will be appropriated from year to year until the system is completed. Dr. J. W. Babcock, Chn. Sewerage Comn.

FORT FREMONT, S. C.—Bids are asked until Feb. 14 for installing sewerage and water systems, including pump house, pumping machinery, tanks, mains, etc.; also a detached lavatory at this post. Earl W. Taylor, Q. M.

FERNANDINA, FLA.—John G. McGiffin, Mayor, writes us that no arrangements have been made for the proposed sewerage system, except to call for an election to authorize a bond issue.

GAINESVILLE, FLA.—Jas. M. Graham writes us that the council will at once consider the question of constructing sanitary sewers at a cost of from $15,000 to $20,000. J. M. Dell, Cy. Clk.

PALATKA, FLA.—It was voted on Jan. 7 to issue $175,000 in bonds for sewers, paving and water-works.

BIRMINGHAM, ALA.—Samuel M. Gray has been engaged by the Jefferson County Sanitary Commission to examine the plans for the proposed sanitary sewers, which will cost about $500,000, and Birmingham's water supply.

AKRON, O.—Bids are asked until Feb. 1 for constructing sewers in two streets. J. V. Mahar, City Clk.

CLEVELAND, O.—Resolutions have been adopted for sewers and drains in two streets and vicinity.

COLUMBUS, O.—Bids are asked until Jan. 28 for constructing an 8-in. sewer in an alley. Clarence T. Addison, Clk. Bd. Pub. Wks.

COSHOCTON, O.—Bids are asked until Feb. 3 for constructing 2,725 ft. of 8-in. pipe sewer in Locust St. F. F. Wagner, Cy. Clk.

FINDLAY, O.—Bids are asked until Jan. 23 for constructing 10 and 15-in. pipe sewers in two streets. Frank C. Ray, Clk. Bd. Pub. Improvements.

GALION, O.—John P. Force, Columbus, has been engaged to prepare plans and specifications for a trunk sewer and a sewage-disposal plant. J. W. Atkinson, Cy. Engr.

MARION, O.—Ordinances have been passed providing for sanitary sewers and storm drains in district No. 3. D. M. Odaffer, Cy. Clk.

MIDDLETOWN, O.—Bids are asked until Jan. 25 for constructing 714 ft. of 12, 15, 18 and 21-in. pipe sewer in Cremo Ave. W. H. Todhunter, Clk. Sewer Comrs.

YOUNGSTOWN, O.—Bids are asked until Feb. 8 for constructing sewers in three streets. C. E. Cross, Clk. Cy. Comrs.

SOUTH BEND, IND.—Alonzo J. Hammond, Cy. Engr., writes us that plans for 5,600 ft. of 42 × 54-in. and 36 × 45-in. brick sewer and 15 and 24-in. pipe sewer will soon be ready for bids.

ADRIAN, MICH.—The council has authorized the sale of $45,000 in sewer and paving bonds.

CHICAGO, ILL.—The city has made a new contract with John P. Agnew for the completion of the 39th St. intercepting sewer, part of which is in tunnel. The Chicago Star Construction Co. abandoned its contract, and after considerable delay a contract was made with Mr. Agnew at $118 per ft., but progress has not been satisfactory, and the Commissioner of Public Works wished to have the contract revoked and the work done by the city by day labor. The contractor, however, brought in a claim for extras on work already done. Under the new contract, just made, Mr. Agnew will waive his claim for extras and is required to complete the work within the time specified in his first contract. The Hamilton shield is being used for the tunnel portion of the work.

DIXON, ILL.—The assessments for sewers in two streets have been confirmed and the contracts will be let in the spring.

MURDOCK, ILL.—Bids are asked until Jan. 30 for constructing 13,936 ft. of 8 to 20-in. tile drains. Percy Welliver, Chn. Drainage Comrs., Dist. No. 2.

OSHKOSH, WIS.—Bids are asked until Feb. 10 for constructing the Murdock St. sewer. Frank Monahan, Chn.

DES MOINES, IA.—A resolution has been passed providing for a 48-in. brick sewer in two streets, a 42-in. brick sewer in six streets, a 36-in. brick sewer in two streets, an 18-in. pipe sewer in four streets and a 15-in. pipe sewer in two streets. E. R. Bennett, Cy. Clk.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., writes us that no action will be taken towards awarding contracts for sewers before April 1st.

ST. PAUL, MINN.—Bids are asked until Feb. 4 for furnishing sewer pipe, brick, cement, stone, etc., for the commissioner of public works. Matt Jensen, Cy. Clk.

ST. PAUL, MINN.—The following bids have been received for constructing a sewer in Selby Ave.: Christ Johnson, $1,387; John Lind, $4,600; P. H. Thornton, $5,248; William J. Preston, $4,940; Patrick Doherty, $4,900; P. J. Ryan, $4,700.

ABILINE, KAN.—The council has decided to construct a sewerage system and the right of way has been secured. Bonds will probably be issued.

FORT SCOTT, KAN.—An ordinance has been passed providing for a sewer in East Wall St. U. S. Stoner, Cy. Engr.

TOPEKA, KAN.—The following bids were received on Jan. 8 for constructing a sewer in Jackson St.: Edward Hawes, $2,371; James Ramsey, $2,473; Winans & Morse, $2,379; P. L. Wise, $2,338; Wall & Hanley, $2,213 (awarded contract).

OMAHA, NEB.—The city engineer has completed plans for a sewer district on 24th St. and the council will be asked to take action in time for the sewer to be completed during the coming season.

SIOUX FALLS, S. DAK.—City Engineer Howe has estimated the cost of a system of sewers from Brewery Hill around the ridge on Summit Ave. at $35,000 or $40,000.

SAN ANTONIO, TEX.—Thos. Franklin, 309 E. Elmire St., Engr. in Charge, writes us that a gap has been found through which the sewerage can be carried to Mitchells Lake with a cut of 7 ft. with 0.04 grade and 10 ft. with 0.06 grade.

TAYLOR, TEX.—J. F. Black, Mayor, writes us that on Jan. 28 Geo. McDonald and others will apply for a franchise for a sewerage system.

LE VEGAS, N. MEX.—Chas. Tamme, Cy. Clk., writes us that the city wants to engage an engineer to prepare plans for sewers.

BERKELEY, CAL.—Resolutions have been passed for 6 and 8-in. pipe sewers in three streets. C. D. Maloney, Supt. Sts.

CHICO, CAL.—Reports state that the trustees will take steps towards advertising for a sewerage system.

LOS ANGELES, CAL.—An ordinance has been passed for constructing a sewer in 16th St. H. J. McGuire, Supt.

PASADENA, CAL.—T. D. Allin, Cy. Engr., writes us that the following bids were received on Jan. 14 for constructing sewers as follows: 11,941 ft. of 8-in. pipe, 3,431 ft. of 10-in. pipe, 1,128 ft. of 12-in. pipe, 15 flush tanks with 5-in. syphons, 32 manholes and 671 Y's. W. W. McGregory, $12,219; S. J. Edwards, $10,985 (awarded contract.)

SACRAMENTO, CAL.—Press reports state that it is probable that an election will be held to vote on the question of issuing bonds for a sewerage system.

SAN FRANCISCO, CAL.—Press reports state that the board of public works has called for bids for constructing the Sunset district sewer to 20th Ave.

WOODSTOCK, ONT.—John Mearns, Mayor, writes us that it is proposed to construct 11,000 ft. of 10, 12 and 15-in. sewers and disposal tank, etc.

AMHERST, N. S.—The proposed sewerage system for this town will cost about $50,000.

GARBAGE DISPOSAL—STREET CLEANING

HOLYOKE, MASS.—The board of public works is considering the question of building a garbage crematory, to cost $6,000. Address Commissioners Allyn and Walsh.

NEW HAVEN, CONN.—Warren Bailey, Clk. Bd. of Health, writes us that the following contracts for removing garbage were let Jan. 14: Arthur N. Farnham, Westville P. O., city, $4,100, western district, about half of the city; Robt. D. Daley, 313 Wallace St., $3,350, eastern district.

NEW YORK, N. Y.—Bids are asked by the department of health, 55th St. and 6th Ave., until Jan. 30 for removing dead animals, night soil, offal, etc., from Brooklyn.——Hyde E. Parsons, Consult. Arch., has completed plans for a crematory and dump at W. 47th St., to cost about $20,000.

KENTON, O.—John Schrenck is reported to have been awarded the contract for collecting and removing the garbage, waste, etc., for the year.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked until Jan. 27 by the trustees for children, 30 Tremont St., for grading, laying drains, etc., at the Parental School, West Roxbury.

BUFFALO, N. Y.—Bids are asked until Jan. 30 for paving in Hamilton and Grace Sts. with various kinds of pavement and for macadamizing in Parkside Ave. R. Grover Parsons, Secy. Dept. Pub. Wks.

LIBERTY, N. Y.—Surveys and estimates are being made for about 8,000 sq. yds. of brick paving in Main St., and if an appropriation for the work is voted in February, bids will be asked for at once. V. K. Mills, Engr., Goshen.

ONEIDA, N. Y.—A. E. Loomis, Bd. Pub. Wks., writes us that paving to cost $18,000 is proposed for 1902; also a public library, at a cost of $11,000, and a high school building, at a cost of $32,000.

OSWEGO, N. Y.—John Henrick has been awarded a contract, at $2,599, for stone block paving in East Bridge St.

WATERTOWN, N. Y.—A movement is on foot towards constructing a road between this city and Sackets Harbor, Campbell's Point, Henderson and Henderson Harbor.

ATLANTIC CITY, N. J.—John Hanselman has been awarded a contract, at $9,138, for building about nine miles of gravel road from Hammonton to Pleasant Mills.

BAYONNE, N. J.—Emmett Smith, Cy. Engr., says that within 30 days the city proposes to contract for 42,000 sq. yds. of paving.

TOMS RIVER, N. J.—Bids are asked until Feb. 18 for building about 7½ miles of gravel road from West Point Pleasant to Lakewood, as stated in our advertising columns. Cornelius D. Kelly, Dir. Bd. Freeholders; W. J. Harrison, Chn. Road Com., Lakewood; Wm. Segoine, Engr., Point Pleasant.

WOODBURY, N. J.—Garrison & Tomlin, Bridgeton, have been awarded a contract for building a stone road in this county, at $10,000.

ALLENTOWN, PA.—The highway department has asked for an appropriation of $105,717 for paving, sewers, a bridge, etc., for the year beginning April 7.

EASTON, PA.—Bids are asked until Jan. 23 for furnishing and laying street crossings and cobblestone paving during the year ending March 31, 1903. L. A. Francisco, Cy. Engr.

NEW BRIGHTON, PA.—An ordinance has been passed providing for an election to be held on Feb. 18 to vote on the question of issuing $150,000 in bonds for paving the streets with brick, macadam or other material and for constructing storm water sewers. C. E. Jackson, Ch. Burgess.

BALTIMORE, MD.—An ordinance is before the council appropriating $19,000 for paving with asphalt blocks in North Ave.

WHEELING, W. VA.—The board of public works will have $50,000 for street improvements this year.

SPARTANBURG, S. C.—Bids are asked until March 29 for the purchase of $50,000 in street improvement bonds. Jos. M. Elford, Cy. Treas.; Arch. B. Calvert, Mayor.

BATON ROUGE, LA.—Bids are asked until Feb. 11 for 17,680 sq. yds. of asphalt or asphalt block paving, 2,015 cu. yds. of concrete, 6,600 lin. ft. of combined curb and gutter or 6,600 lin. ft. of stone curb and 6,600 sq. ft. of concrete; also drain pipes, catch-basins, etc., in Main and North Boulevard Sts. R. Swart, Cy. Engr.

ALLIANCE, O.—Ordinances have been adopted for brick or asphalt block paving, grading, drains, etc., in nine streets and alleys. J. H. McConnell, Cy. Clk.

BATAVIA, O.—Bids are asked until Feb. 14 for constructing 7¾ miles of turnpike. H. P. Williams, County Audr.

CINCINNATI, O.—Resolutions have been passed providing for brick or asphalt paving, drains, etc., in seven streets. Geo. F. Holmes, Clk. Bd. Pub. Service.

CLEVELAND, O.—Bids are asked until Jan. 29 for brick paving, grading, draining, curbing, etc., in 12 streets. Chas. P. Saber, Dir. Pub. Wks.

FREMONT, O.—An ordinance is before the council providing for brick paving, grading and curbing and a 12-in. sewer in Whittlesey St.

LIMA, O.—Bids are asked until Feb. 7 for 16,700 sq. yds. of brick paving in East Second St. and Jamison Ave. and 3,625 sq. yds. of asphalt paving in Brice and Richie Aves. C. E. Lynch, Cy. Clk.

YOUNGSTOWN, O.—Bids are asked until Jan. 25 for grading, draining and improving in Pearl St., and until Feb. 8 for grading, draining and improving in Cherry St. C. E. Cross, Clk. Cy. Comrs.

LOGANSPORT, IND.—Bids are asked until Feb. 3 for constructing gravel roads, 3, 4 and 7-in., in Deer Creek Township. J. G. Powell, County Audr.

SOUTH BEND, IND.—Alonzo J. Hammond, Cy. Engr., writes us that bids are asked until Feb. 3 for 28,200 sq. yds. of brick paving in four streets, at an estimated cost of $41,826.

WASHINGTON, IND.—Bids are asked until Feb. 4 for constructing about 12 miles of gravel or macadamized roads in Madison Township. W. H. McCarter, Chn. County Comrs.

WILLIAMSPORT, IND.—Bids are asked until Feb. 14 for constructing 1¾ miles of gravel road, at an estimated cost of $6,500. W. H. Gimmer, Engr.

WINAMAC, IND.—Bids are asked until Feb. 4 for building and improving the following roads in Monroe Township: Kewanna Road, 11,000 ft.; Bruce Lake Road, 13,710 ft.; Monterey Road, 10,500 ft.; Walters Bridge Road, 17,250 ft.; Bass Lake Road, 11,165 ft.; Medaryville Road, 26,020 ft.; Denham Road, 20,930 ft.; Francesville Road, 32,720 ft.; Pulaski Road, 15,800 ft. P. A. Follmar, Chn. County Comrs.; Jas. N. Hayworth, County Audr.

TRAVERSE CITY, MICH.—A resolution has been adopted for paving in four streets, at an estimated cost as follows: Front St., asphalt, 44 ft. wide, $17,781; 40 ft. wide, $16,464; brick, 44 ft. wide, $15,673; 40 ft. wide, $14,579. Union St., asphalt, 40 ft. wide, $13,837; brick, $12,171. Cass St., asphalt, 40 ft. wide, $8,106; brick, $7,121; 38 ft. wide, $6,814. Park St., asphalt, 40 ft. wide, $4,339; brick, $3,824; 38 ft. wide, $3,659; 36 ft. wide, $3,517.

DWIGHT, ILL.—P. C. Knight, Engr., Pontiac, is preparing plans and estimates for five miles of asphalt, brick or macadam paving.

EAST ST. LOUIS, ILL.—It is reported that bids are wanted for grading, paving with brick and constructing a 24-in. pipe sewer in Rock Road, a distance of one mile, at an estimated cost of $61,416. L. L. Harper, Cy. Engr.; M. A. Cleary, Cy. Clk.

BARABOO, WIS.—The council has ordered plans and specifications prepared for paving in two streets. W. G. Kirchoffer, Cy. Engr.

OSHKOSH, WIS.—According to reports, bids will be asked in a short time for brick or asphalt paving in a number of streets. Address Mayor Mulva.

MINNEAPOLIS, MINN.—The city engineer has been directed to purchase 13,000 sq. yds. of 4-in. creosoted blocks for paving 10th St. from 1st Ave. to Park Ave. during the season of 1902, to cost not more than $1.95 per sq. yd.

ST. PAUL, MINN.—Fielding & Shepley have been awarded a contract for paving in Eighth St., at $3,091.

JOPLIN, MO.—A resolution has been approved providing for macadamizing and grading in Amander Ave. E. C. H. Squire, Cy. Clk.

KANSAS CITY, MO.—Bids are asked until Jan. 24 for constructing granitoid sidewalks in nine streets, pressed brick sidewalks in two streets, surbing in three streets and for repairing the asphalt pavement in two streets. Robt. W. Waddell, Cy. Engr.

ST. JOSEPH, MO.—Ordinances are before the council providing for brick paving in Faraon St. and for constructing sidewalks in several streets.

COLORADO SPRINGS, COLO.—City Engineer Case has prepared plans for parking Cascade Ave., at an estimated cost of $33,445.

SAN FRANCISCO, CAL.—An ordinance has been passed for repaving Valencia St., at a cost of $28,300.

SANTA BARBARA, CAL.—A resolution has been passed calling for bids for grading, curbing and guttering in Figueroa St.

SALT LAKE CITY, UTAH.—A. J. McNab is quoted as stating that a movement is on foot to build a wagon road from Three Forks to Thunder Mountain, at a cost of about $35,000.——Resolution of intention is published of paving in South Temple St., at a cost of about $86,658.

AYR, ONT.—It was voted on Jan. 6 to issue $3,000 in bonds for constructing sidewalks.

DURHAM, ONT.—A by-law for cement pavements and a bridge was passed on Jan. 6.

TORONTO, ONT.—Bids are about to be asked for concrete sidewalks in 14 streets, at an estimated cost of $10,875; asphalt paving in Baldwin St., estimated cost, $4,750, and for tar macadam paving in Macpherson Ave., at a cost of $2,760. C. H. Rust, Cy. Engr.

MANUFACTURING PLANTS.

LAWRENCE, MASS.—The Champion Card & Paper Co., of East Pepperell, and the Russell Mill have been consolidated as the Champion International Co. The new concern will erect a large coating mill. G. F. Russell is interested.

WORCESTER, MASS.—The American Steel & Wire Co. has had plans prepared for a group of new buildings as an addition to the south works in Quinsigamond, to cost about $25,000.

ROCHESTER, N. Y.—The Locke Insulator Works, at Victor, destroyed by fire several days ago, is to be rebuilt.

BROOKLYN, N. Y.—The New York Saw Works, Messrs. Joshua Oldham & Sons, 26th St., Brooklyn, recently destroyed by fire, will be rebuilt at once. The plant is to be one of the best equipped in this country. The engineering features of the new plant are being handled by B. Franklin Hart, Jr., M. E., of the office of Edwin Burhorn, Engr. and Contractor, 62 Wall St.

NEW YORK, N. Y.—The Chapman Double Ball Bearing Co., 49 Wall St., New York, will consider proposals from city or town committees relative to land grants or privileges leading to the selection of a site on which to locate a large manufacturing plant.

McKEESPORT, PA.—The stockholders of the Partvus Tinplate Co. have completed plans for the erection of their new factory at Partvue. Contracts have been let.

BEAVER FALLS, PA.—The contract for the excavating for the plant of the National Bridge Co. at Monaca has been let to Ira W. Logan, Rochester. It requires the removal of 140,000 yds. of gravel. The new plant will be built at once, and will occupy about 14 acres of land.

PITTSBURG, PA.—The Champion Rivet Co., of Cleveland, has purchased nine acres of land at Parnassus, where a plant costing $200,000 will be erected.——Application has been made for a charter for the Fombell Clay Mfg. Co., which will erect a brick plant in the Pittsburg district. The plant will cost about $50,000, and will have a capacity of 200,000 brick a day. A site of 250 acres has been purchased near the town of Fombell, Beaver county. W. G. Clark, M. I. Jacobs and Herbert Carlton are interested.——Follansbee Bros., of Second Ave., have secured options on a large acreage on the Ohio River in West Virginia, opposite Steubenville, for the location of an 8-mill tin plant, to cost about $400,000. Edward E. Erikson, Engr., is now engaged in drawing plans.——The Columbia Bridge Co. has made application to increase its capital from $100,000 to $500,000. The company proposes to erect a bar mill with a capacity of 500 tons a day. The plant will occupy 10 acres of land. It is proposed later to construct open-hearth furnaces. The total investment will cost in the neighborhood of $1,000,000.

PHILADELPHIA, PA.—The Alan Wood, Iron & Steel Co. has started work on its new $1,000,000 plant for the production of basic open-hearth steel. The plant will be located between Conshohocken and Norristown in the Schuylkill Valley. Five 50-ton furnaces will be erected, having a yearly output of 100,000 tons of steel.——The following bids were received by the Bureau of Yards and Docks, Washington, D. C., on Jan. 18 for the workshop and boiler house for ordnance building No. 26, League Island Navy Yard: (1) workshop and boiler house complete; (2) same as No. 1, except omitting elevator engine, machinery and car and all apparatus required in their operation; (3) time; (4) make of elevator; (5) alternate: Randolph & Baer, 541 Heed Bldg., Philadelphia, (1) $44,799, (2) $42,149, (3) 10 months, (4) Baltimore Machine Co.; Henderson & Co., Ltd., 1215 Filbert St., Philadelphia, (1) $34,773, (2) $32,573, (3) 10 months, (4) National Elevator Machine Co., (5) $29,333; Hoffman Engineering & Contracting Co., 404 Harrison Bldg., Philadelphia, (1) $42,000, (2) $39,000, (3) 8 months, (4) Morse, Williams & Co.; Penn Erecting Co., 1421 Filbert St., Philadelphia, (1) $33,425, (2) $30,725, (3) 6 months, (4) Baltimore Machine Co., (5) $29,625; L. L. Leach & Son, 1402 Marquette Bldg., Chicago, (1) $37,000, (2) $34,900, (3) 7 months, (5) $30,000; Geo. C. Dietrich, 935-9 N. Seventh St., Philadelphia, (1) $37,553, (2) $34,843, (3) 8 months, (4) Baltimore Machine Co.; The Chas. McCaul Co., 10 N. 11th St., Philadelphia, (1) $34,830, (2) $2,275, deduct for elevator, (3) 7 months; Herman Voight, 2923 Girard Ave., Philadelphia, (1) $34,990, (2) $32,155, (3) 6 months, (4) Baltimore Machine Co.

SAYRE, PA.—The Lehigh Valley R. R. is preparing plans for improvements to the shops and yards at this place, which, it is estimated, will cost about $600,000.

RICHMOND, VA.—The contract for building an erecting shop for the Locomotive Works has been let to J. T. Wilson, and work will commence at once. The shop will cost about $100,000. It will be 75 × 100 ft.

PARKERSBURG, W. VA.—Local papers state that a Russian iron manufactory will be erected in Beechwood, at a cost of $50,000. J. R. Rose is said to be interested.

BESSEMER, ALA.—John C. Brain proposes to establish a factory to make fertilizer and cement from slag according to a new process. The factory will cost over $200,000, and will employ about 200 men.

LOUISVILLE, KY.—Davis, Kelly & Co., of this city, are behind the movement to establish an organization to be known as the Louisville Steel & Iron Co., capitalized at $500,000, to erect a plant for the manufacture of steel billets, galvanized sheets and other steel products. The plant will cost about $210,000.

AKRON, O.—The Goodrich Co. proposes to build an addition to its plant. The new building to be erected will cost about $250,000.

FINDLAY, O.—The Union Mills, at McComb, which were destroyed recently by fire, will be rebuilt.

CHICAGO, ILL.—Thomas Mullay has prepared plans for a factory at 22d and Johnson Sts. for the Kinsella Glass Co., to be two stories, 145 × 100 ft., costing $40,000.

BELOIT, WIS.—Nimmons & Fellows, Archs., 204 Dearborn St., have prepared plans for a machine shop, 200 ft. square, to be built in connection with the plant of the Berlin Machine Co., at a cost of $50,000.

LEAVENWORTH, KAN.—The Leavenworth Packing Co. has been chartered, with a capital stock of $100,000, and will erect a plant costing that sum in this city. August Thudium and Louis Wulfekuhler are interested.

DES MOINES, IA.—The National Starch Mfg. Co. has decided to enlarge its plant here, and has had plans prepared to this purpose. The main new building will be four stories, 600 × 160 ft.——The Continental Biscuit Co. has purchased the block at 11th and Cherry Sts. from F. M. Hubbell, and will erect thereon a 6-story factory, 110 × 132 ft.

DULUTH, MINN.—The Northern Pacific R. R. is making improvements here that will cost nearly $1,000,000.

ST. LOUIS, MO.—A warehouse and factory building, six stories high, will be erected at Ninth and Gratiot Sts., to take the place of those of the S. N. Long Sirup Co., consumed by fire several months ago. The cost of the new structures will be about $80,000. Contracts have been let.

MABANK, TEX.—The state has decided to erect a sugar mill in Brazoria county, to be worked by convict labor. It is estimated that the cost of the new plant will be between $200,000 and $300,000.

NELSON, B. C.—Local papers state that J. A. Sauwood will increase the capacity of his shingle plant at Pilot Bay and contemplates erecting a new mill at Creston.

MISCELLANEOUS CONTRACTS.

GRADING.—Vicksburg, Miss.—Bids are asked until Feb. 3 for cutting down hills on road No. 80. J. D. Laughlin, Clk. Chancery Court.

SYPHON CULVERT.—Montreal, Que.—Bids are asked until Jan. 25 for a syphon culvert. Ernest Marceau, Supt. Engr., Quebec Canals.

PUMPING ENGINE.—Jeffersonville, Ind.—Bids are asked until Feb. 3 for a "Doctor" pumping engine at this depot. J. M. Marshall, Asst. Q. M. Gen.

DAM.—El Paso, Tex.—The Eagle Creek Mining Co. will construct a concrete dam 100 ft. high and 250 ft. wide across Bonita River in Graham county, N. Mex.

CANAL.—Port Huron, Mich.—The Cuyahoga Construction Co., Cleveland, O., has been awarded a contract at $81,443 for constructing the Black River Canal.

WHARF REPAIRS.—Augusta, Ga.—Bids are asked until Jan. 27 for making repairs and additions to the city wharf near Centre St. Nisbet Wingfield, Comr. Pub. Wks.

MACHINERY, ETC.—Springfield, Mass.—Bids are asked until Feb. 12 for furnishing machinery, etc., at the armory. Lieut.-Col. Frank H. Phipps, Ordnance Dept.

WHARF.—Washington, D. C.—Bids are asked until Feb. 7 for a new wharf, etc., at the Tampa Bay quarantine station, Mullett Key, Fla. James Knox Taylor, Supervising Arch.

DAM REPAIRS.—Milwaukee, Wis.—The pressure of ice and water on the dam in the Milwaukee River has made a break and the city engineer estimates the damage at $2,000 or $3,000.

WHARF and DREDGING.—San Francisco, Cal.—Healy, Tibbitts & Co. have been awarded a contract at $6,495 for constructing an addition to the Folsom St. wharf and for dredging at $1,679.

CRUSHED STONE.—Scranton, Pa.—Bids are wanted at once by the Transit Contract Co., Connell Bldg., for about 100,000 yds. of crushed stone for ballast, as stated in our advertising columns.

LIGHT-HOUSE REPAIRS.—Mobile, Ala.—Bids are asked until Feb. 20 for making repairs at West Rigolets light-station, La., as stated in our advertising columns. Lieut. Col. A. N. Damrell, U. S. Engr.

SWITCHBOARD.—Milwaukee, Wis.—Chief of Police Janssen has asked the board of public works for a new switchboard and various appliances for the police alarm system which will cost about $5,000.

DITCH.—Monticello, Ind.—Bids are asked until Jan. 28 for about 42,878 cu. yds. of excavation and tile drain and earth work at an estimated cost of between $3,000 and $4,000. Will D. Wirt, Comr. in Charge.

WHARF.—New Orleans, La.—Bids are asked until Feb. 4 for constructing a wharf near the head of Clouet St. Hugh McCloskey, Pres. Bd. Port Comrs., 337 Carondelet St.; Coleman & Malochee, Engrs., 319 Carondelet St.

DREDGING AND JETTY.—Sandwich, Mass.—Augustus Bellevue & Co., East Boston, have been awarded a contract for building a jetty on each side of the mouth of Bass River and for dredging the channel about 1,400 ft. long, 50 ft. wide and not less than 4 ft. deep at mean low water.

TRAVELING CRANE.—Chattanooga, Tenn.—H. H. Peet, Lookout Boiler & Mfg. Co., writes us that they are in the market for a new or second-hand 15-ton overhead traveling crane, hand power, 30-ft. span and 25-ft. lift, equipped complete with chain and blocks.

DREDGING.—San Francisco, Cal.—Lott D. Norton, Bd. of State Harbor Comrs., writes us that the Atlantic Gulf & Pacific Co. has been awarded a contract at $13,947 for dredging about 120,000 cu. yds. of mud dredging, the material to be deposited in China Basin.

IRON PIPE.—Minneapolis, Minn.—Bids are asked until Feb. 3 for furnishing and delivering iron culvert pipe as follows: 15 tons 24-in. c.-i. pipe, 15 tons 30-in. c.-i. pipe and 10 tons w.-i. pipe 12 to 40 ins. in diameter. Hugh R. Scott, County Audr.; Geo. W. Cooley, County Surv.

LAUNCHING WAYS.—New London, Conn.—F. W. Carlton, Bath, Me., has been awarded contracts by the Eastern Shipbuilding Co. for constructing launching ways, about 250 ft. long, for two steamships, at about $50,000, and for a 550-ft. mooring wharf at $20,000. Other improvements are contemplated in the near future.

TRACK AND DREDGE.—Newark, N. J.—J. C. Mundy, Gen. Supt. Wks., writes us that the following bids were received on Jan. 2 for a track and dredge for the Peddie St. Canal: For steam dredge and car, Jos. S. Mundy, Newark, $4,000; Lambert Co., Newark, $4,510; Smith & Sons Co., Jersey City, $4,890; for 300 ft. of track, P. Sanford Ross, Jersey City, $2,275; Samuel P. Harris, Newark, $2,182.

CONTRACT PRICES.

BRICK SEWERS.—Waterloo, Ia.—M. L. Newton, Cy. Engr., writes us that the following bids were received Jan. 8 for constructing 3,540 ft. of 10-ft. brick sewers:

Bids Received at Waterloo, Ia., Jan. 8, 1902, for Constructing Brick Sewers.

Quantities.		Ford & De La Hunt, Cedar Rapids.	Likes Improvement Co., Des Moines.	Tibey Bros., Dubuque.	Byrne & Saul, Dubuque.	W. A. Edgar, Cedar Rapids.	DuBois & Co., Des Moines.	Blake Bros., Dubuque.	Western Constn Co., Waterloo, Ia.	William Horrabin, Iowa City, Ia.
Masonry—First-class range:										
Bulkheads	200 cu. yds.	$10.81	$8.00	$5.00	$5.97	$10.00	$16.49	$7.00	$6.00	$12.00
In arch	3,540 " "	9.50	8.00	5.00	5.97	8.00	9.35	...	6.00	7.26
Common rubble	3,200 " "	4.75	5.33	5.00	5.97	4.86	7.17	...	3.95	5.08
Pavement and foundation*	3,930 sq. yds.	3.50	1.60	2.35	1.90	2.25	4.37	2.15	2.30	1.48
Earth excavation	35,400 cu. yds.	4.00	4.00	4.00	3.00	4.00	4.30	5.50	4.80	4.30
Rock excavation		4.00	2.00	7.50	9.50	1.50	3.15	2.35	9.50	4.00
Concrete of arch	1,900 cu. yds.	6.50	5.29	...	5.97	5.00	5.07	5.95	5.50	4.37
Concrete of side wall	3,200 " "	6.50	5.29	...	5.97	5.25	4.97	5.95	5.00	4.27
Manholes	3 each	20.00	35.00	30.00	37.00	25.00	25.00	50.00	50.00	30.00
Total, rock construction		$78,967	$67,529	$58,186	$59,631	$68,950	$91,812	.....	$61,261	$65,485
Total for concrete construction		63,287	49,132	.....	49,641	51,378	61,306	59,815	53,831	45,495

*With invert pipe.

LEVEE WORK.—New Orleans, La.—The state levee board received the following bids Jan. 15, 1902, for certain levee work, (1) being for Killarney, (2) for Fannie Richie, (3) for Belmont to Viola, (4) Willow Bend, (5) Vinson: Jordan Bros., Shreveport, La., (4) 14.40 cts.; I. R. Bobbitt, Melville, La., (1) 16.40 cts., (3) 19.7 cts.; Sam S. Hunter, Shreveport, La., (5) 14.90 cts.; Heigason Bros. & Garbish, Vicksburg, Miss., (1) 12.94 cts., (3) 18.95 cts.; Dameron & White, New Orleans, La., (2) 20 cts., (3) 20 cts.; R. T. Clark, Natchez, Miss., (1) 12⅞ cts.; Batt O'Brien, Natchez, Miss., (1) 15.73 cts.; M. L. Linnan, Simmsport, La., (1) 15.73 cts.; Leeper & Ryan, Jacksonville, Tex., (1) 12.19 cts.; Robt. Nicholson, Villa Vista, La., (1) 16.21 cts.; Rushing & Smith, Shreveport, La., (5) 14.40 cts.; W. M. Rushing, Shreveport, La., (4) 21.40 cts.

PAVING.—Toledo, O.—The following lowest bids were received by the council Jan. 12, 1902, for about 6,412 yds. of paving in Ontario and Church Sts.: Ontario St., Kerlin Bros., Logan block on sand, $1.00; concrete foundations, $1.36 to $1.40 a yd; asphalt block paving, H. G. Jennison, on concrete, $2.49; on sand, $2.16; on broken stone, $2.29; Church St., Kerlin Bros., Logan block, on sand, $1.02 a sq. yd.; grading, 20 cts. a cu. yd.; C. W. McKinney, $1.02 per yd., with Athens block; grading, 20 cts.

SEWERS.—Newark, N. J.—The following bids were received Jan. 16 for constructing the first of the joint outlet sewer for Newark and some of the nearby towns; Alexander Potter, Consult. Engr., 150 Nassau St., New York: stringers, $5.24 per lin. ft.; timber jetty, 20-ft. main piles, with 16-ft. and 18-ft. spur piles, sheeting 14 ft. long, piles spaced 6 ft., four stringers, $5.43 per lin. ft.; head or outer end of each jetty, the sum of $7,500; dredging the channel, the sum of $3,600. All piles and spur piles are to be of oak, sound and straight, at least 10 ins. in diameter. At the outer end of each jetty eight piles are to be driven in a clump. In addition to the bolting, they are to be tied together with galvanized iron wire rope 2¼ ins. in diameter, the rope to be of six strands of seven wires each, with hemp center. The stringers will be of spruce, bolted with 4¾-in. bolts. The planking will be 4-in. spruce, set vertically, to be reinforced by 3 x 6-in. planking. The channel is to be dredged about 1,400 ft. long, 50 ft. wide on the bottom, not less than 4 ft. deep, at mean low water. The work consists of building a jetty on each side of the mouth of Bass River and the dredging near the outer ends of the channel.

MACADAM ROAD.—Bozrah, Conn.—J. H. Macdonald, Highway Comr., Hartford, Conn., has awarded a contract to the Middlesex Construction Co. at 94 cts. a lin. ft. for building 5,500 ft. of macadam road.

U. S. POSSESSIONS AND CUBA.

BRIDGE, MANILA, P. I.—The municipal board has approved plans for completing the Santa Cruz bridge, to cost about $20,000.

BRIDGE.—Honolulu, H. I.—The superintendent of public works is making arrangements to erect a bridge at Nuuanu Ave., Honolulu, to cost about $15,000.

ELEVATED CABLE RAILWAY.—San Juan, P. R.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., received the following bids Jan. 18 for an elevated cable railway at the San Juan naval station, to be about 1,750 ft. long: United Telpherage Co., 20 Broad St., New York, item A, $37,400, (B) $2,925, (C) $50,870, (D) $3,792, four months; C. W. Hunt Co., West New Brighton, N. Y., (1) $9,200, add $360 for roller bearings; Snare & Triest, Inc., 39 Cortlandt St., New York, (1) $13,800.

PIER, FREIGHT HOUSE, ETC.—Matanzas, Cuba.—Bids are asked by the U. S. Engineer at Matanzas until March 6 for constructing a pier, freight house, etc., at Matanzas, to cost about $317,000, as stated in our advertising columns. Bond, $25,000.

BONDS.—Ponce, P. R.—Bids are asked until Jan. 31 for the purchase of $200,000 of 6% 20-year public improvement bonds. The bids received Dec. 30 from De Ford & Co., of Boston, Mass., and J. M. Ceballos & Co., of New York, were rejected. E. Chevalier, Mayor, Ponce.

ELECTRIC RAILWAY.—Luzon, P. I.—J. H. Culver, Pres. Luzon Transportation & Improvement Co., Sutton, Neb., U. S. A., writes us that the company has been organized to build an electric railway between Subig and Manila Bay, P. I., a distance of about 25 miles. The contracts for construction and supplies will be made in the spring. The road will pass through a mountain range covered with valuable timber, and will tap a rich agricultural region. It is expected to utilize water power. H. C. Hartley, Mech. Engr., Lincoln, Neb.; M. L. Luebben, Secy. and Treas., Sutton.

RAILWAY.—Hawaii.—Reports dated Jan. 16 state that active work has begun on the Konakau R. R., which is to start from about Kailua, on the Kona coast of Hawaii, and run around the western and southern coasts of that island. The surveyors are now at work in the field locating the exact line of the road. The company is capitalized at $2,000,000, all save $20,000 of which has been subscribed in Chicago. Jacob Coerper, the promoter of the road, will start from Honolulu on Jan. 21 to purchase the necessary railway material. It will be shipped direct to Kona. The contract for the actual construction will be let in about three months. The road will be about 125 miles long, and much of the way will be through a region which is thickly populated.

Bids Received at Newark, N. J., Jan. 16, 1902, for the Joint Outlet Sewer for Newark and Vicinity.

Quantities.		T. J. Shea, Quincy, Ill.	Thos. F. Moore, Syracuse, N. Y.	Metropolitan Con.Co., Jersey City, N. J.	B. J. Sullivan, Newark, N. J.	Harrison Con.Co., Newark, N. J.
72-in. brick sewer,	0 to 6 ft. deep	195 lin. ft.	$9.00	$9.43	$8.57	$18.89	$11.10
" " "	6 " 10 " "	1,970 " "	10.00	9.88	8.57	12.23	12.10
" " "	10 " 14 " "	500 " "	11.00	10.71	8.57	12.82	13.00
66-in. " "	6 " 10 " "	773 " "	9.00	9.28	8.05	10.22	11.15
42-in. " "	0 " 6 " "	474 " "	3.60	4.32	5.00	4.67	4.85
" " "	6 " 10 " "	7,725 " "	4.20	4.46	5.00	4.98	5.10
" " "	10 " 14 " "	4,225 " "	4.85	5.08	5.00	5.46	5.70
" " "	14 " 18 " "	1,270 " "	5.40	6.02	5.00	5.94	6.75
" " "	18 " 22 " "	890 " "	6.20	7.08	5.00	6.90	8.60
" " "	22 " 26 " "	600 " "	7.50	8.60	5.00	7.38	11.10
Manholes,	10 ft. deep, or less	48 each	40.00	36.33	35.00	40.00	30.00
"	10 to 15 ft. deep	47 "	5.00	4.44	3.50	3.50	3.50
"	15 " 20 " "	15 "	6.00	4.67	3.75	4.00	4.00
"	20 " 26 " "	5 "	10.00	5.00	4.00	4.50	5.00
Rock excavation		9,000 cu. yds.	1.50	1.75	3.00	1.60	2.20
Piling in wharf and bulkhead		2,015 lin. ft.	.20	.33	.30	.38	.25
Lumber in wharf		23,570 ft. B.M.	40.00	46.67	50.00	48.00	45.00
Timber foundation		7,000 " "	50.00	53.34	40.00	40.00	40.00
Sheeting in trench		30,000 " "	35.00	26.00	30.00	30.00	35.00
36-in. cast-iron pipe		36 lin. ft.	10.00	10.80	8.00	15.00	10.00
Asphaltum lining		650 sq. yds.	1.25	.67	1.00	.50	.50
Extra brickwork		50 cu. yds.	12.00	11.00	9.00	12.00	12.00
Extra concrete		50 " "	12.00	9.00	9.00	8.00	7.00
Total			$126,344	$133,442	$138,703	$145,461	$155,805

RIVER WORK.—Bass River, Mass.—Aug. Bellevue & Co., of East Boston, Mass., has been awarded the following contract for improvements to Bass River: Timber jetty, 20-ft. main piles, with 16-ft. spur piles, sheeting 12 ft. long, piles spaced 8 ft., two stringers, $4.64 per lin. ft.; timber jetty, 20-ft. main piles, with 16-ft. spur piles, sheeting 14 ft. long, piles spaced 6 ft., two stringers, $4.70 per lin. ft.; timber jetty, 20-ft. main piles, with 18-ft. spur piles, sheeting 18 ft. long, piles spaced 6 ft., two stringers, $5.56 per lin. ft.; timber jetty, 20-ft. main piles, with 18-ft. spur piles, sheeting 14 ft. long, piles spaced 6 ft., two

COAL-HOISTING TOWERS, ETC.—San Juan, P. R.—The Bureau of Yards and Docks, Washington, received the following bids Jan. 18 for two coaling towers, with the necessary machinery, at the San Juan naval station, item (1) being for towers complete in naval station wharf, (2) for the towers complete alongside ship in N. Y. H.: Boston Bridge Works, 70 Kilby St., Boston, (1) $23,000; New York or Boston delivery; C. W. Hunt Co., West New Brighton, N. Y., (2) (A) $19,600, (B) $200, (C) $17,600, (D) $5,600 add to (A), (E) $1,260 add to (C), (F) $1,600 add to (A, C, D, E, G), (G) $14,391; Snare & Triest, Inc., 59 Cortlandt St., New York, (1) $18,710, (2) $22,300.

FOREIGN CONTRACTS—EXPORT NEWS.

SHIPYARD.—Antwerp, Belgium.—Reports state that an American company proposes to build a shipyard at Hoboken, near Antwerp.

RAILWAYS.—Mexico.—Reports state that a 3-mile railway is to be built from Santa Cruz to Guanacevi. Victor A. Caberro, of Chihuahua, Mex., is interested.

SMELTER.—Mexico.—Carlos Michaud, of Saltillo, Mex., has applied to the legislature of the state of Coahuila for official permission to erect and operate a smelter at Saltillo.

OIL ENGINES, ICE PLANT, ETC.—Syria, Turkey.—P. M. Elias, of Damascus, Syria, wishes to secure prices, etc., of oil engines, small cooking stoves, small ice-making plant, printing press, etc.

LEGATION BUILDING.—Seoul, Korea.—U. S. Minister Allen, at Seoul, has asked Secretary Hay, of the State Department, to request Congress to erect a new legation building for the U. S. to cost about $40,000.

STATION, ROUNDHOUSE, ETC.—Mexico.—The Mexican National Ry. Co. has prepared plans for a new stone passenger station and a ten-stall roundhouse at Monterey, Mex. The freight yards are also to be greatly enlarged.

RAILWAYS.—South Africa.—Reports from London, Eng., state that Lord Kitchener, Commander of the British Army in South Africa, has been authorized to extend the railways in South Africa at a cost of about $4,150,000. There will probably be light railways.

ELECTRICAL APPARATLS.—France.—Reports state that Jos. L. Ulio, 1046 W. 83d St., Brooklyn, N. Y., wishes to receive catalogues, price-lists, etc., of electrical apparatus for an electric railway for a town in the south of France to cost about $200,000.

RAILWAY.—Mexico.—The construction of a new railway between Morelia and Acambaro, Mex., is to begin as soon as the survey can be made and approved by the Morelia & Acambaro Ry., Timber & Land Co., which has a capital stock of $6,000,000. David Buchanan, 32 Broadway, New York, is said to be at the head of the enterprise.

TRAMWAY.—Shanghai, China.—The ratepayers of the International Settlements, Shanghai, has declared itself in favor of the establishment of a system of tramways in Shanghai, and the council has called for tenders for the construction and operation of the same to be in by March 7. It is also likely that tramways will be built in Tientsin, Honk-Kong and other Chinese ports.

BRIDGE AND RAILWAY WORK.—England.—Bids are asked by the North Eastern Ry. Co., York, until Feb. 12 for constructing a new railway bridge over the River Tyne at Newcastle. It is to have four tracks, and will be 110 ft. above the water. Bids are also wanted for widening 1½ miles of the main line between Newcastle and Leamside. C. A. Harrison, Engr., Newcastle-upon-Tyne.

BUILDINGS.—Langho, Eng.—Plans are wanted until April 4 for new buildings at the asylum at Langho, near Blackburn. The first prize is $1,000; 2d, $750; 3d, $500. Address Clerk Joint Asylum Com., Charlton Union Offices, Manchester.——Kirk & Randall have been awarded the contract, at $125,000, for a theatre on St. Martins Lane, London, W. C. A. R. Henderson, Engr., 47 Pall Mall, London.——Higgs & Hill have been awarded the contract, at $100,000, for erecting a Baptist church building in Southampton Row, London, W. C. Arthur Keen, Arch., 4 Raymond Bldg., London.

INDUSTRIAL NOTES.

THE REESE-HAMMOND FIRE BRICK CO., Bolivar, Pa., has the contract for furnishing brick for paving two streets at Greensburg, Pa., for which contracts have recently been let.

THE COATESVILLE BOILER WORKS, Coatesville, Pa., has just enclosed its new shop No. 3, which will be 110 x 425 ft. This company devotes itself exclusively to plate metal construction.

THE W. D. BOYCE ENGINEERING CO., St. Louis, has been incorporated, with a capital stock of $30,000. W. D. Boyce holds 285 shares, William R. Macklind 10 and William W. Stroup 5.

THE CHICAGO PNEUMATIC TOOL CO., Chicago, reports an order from the Lehigh Valley R. R. Co. for seven 500-ft. air compressors, recently received by the New York & Franklin Air Compressor Co.

THE DAYTON CONSTRUCTION CO., Dayton, O., is reported to be building a bridge over the Pennsylvania R. R. tracks near Avoca, Pa., 63 ft. high and 80 ft. long, and as having contracts for 50 bridges on the Scranton & Wilkesbarre Electric R. R.

THE McCLINTIC-MARSHALL CONSTRUCTION CO., Pottstown, Pa., gave a banquet to its office force on Jan. 14 at the Shuler House, Pottstown. Fifty-two covers were laid, and a unique blue-print menu sheet was prepared in parody of a structural specification.

THE PHILADELPHIA PNEUMATIC TOOL CO., 1038 Ridge Ave., Philadelphia, expects to let the contract this week for its new building on 21st St., below Allegheny Ave., alongside of the Philadelphia & Reading R. R. tracks. The shop will be one story, with a basement, 96 x 130 ft., with side extension for boiler house 24 x 44 ft. The engine room will be located in the basement, where the company expects to install an 80-HP. engine, together with direct-connected generating unit for lighting, etc. A return tubular boiler will be used, together with brick chimney 70 ft. in height, steam heating plant, etc. The interior construction and roof frame for the building will be of yellow pine, with slag roof. The roof will have four large lanterns or skylights, extending transversely of the building. The plant will have a complete modern equipment, and is expected to be ready for occupancy May 1. Walter Smedley, Stephen Girard Bldg., Philadelphia, is the architect.

The Circulation of Engineering News Among Prominent Contractors ... Probably Exceeds that of any other Five Papers

ADVERTISE YOUR WORK IN ENGINEERING NEWS.